



Tazarotene Foam

7 DRUG INTERACTIONS No formal drug-drug interaction studies were conducted with Tazarotene Foam. Concomitant dermatologic medications and cosmetics that have a strong drying effect should be avoided. It is recommended to postpone treatment until the effects of these products subside before use of Tazarotene Foam is started. Concomitant use with oxidizing agents, such as benzoyl peroxide, may cause degradation of tazarotene and may reduce the clinical efficacy of tazarotene. If combination therapy is required, they should be applied at different times of the day (e.g., one in the morning and the other in the evening). The impact of tazarotene on the pharmacokinetics of progestin-only oral contraceptives (i.e., minipills) has not been evaluated. In a trial of 27 healthy female subjects between the ages of 20 to 55 years receiving a combination oral contraceptive tablet containing 1 mg norethindrone and 35 mcg ethinyl estradiol, concomitant use of tazarotene did not affect the pharmacokinetics of norethindrone and ethinyl estradiol over a complete cycle.

8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy Tazarotene Foam is contraindicated in pregnancy [see Contraindications (4)]. There are no adequate and well-controlled studies with Tazarotene Foam in pregnant women. Tazarotene Foam is contraindicated in females who are or may become pregnant [see Contraindications (4)]. Females of child-bearing potential should be warned of the potential risk and use adequate birth-control measures when Tazarotene Foam is used. The possibility that a female of child-bearing potential is pregnant at the time of institution of therapy should be considered. A negative serum or urine result for pregnancy test having a sensitivity down to at least 25 mIU/mL for hCG should be obtained within 2 weeks prior to therapy with Tazarotene Foam, which should begin during a normal menstrual period for females of childbearing potential. In rats, tazarotene 0.05% gel administered topically during gestation days 6 through 17 at 0.25 mg/kg/day resulted in reduced fetal body weights and reduced skeletal ossification. Rabbits dosed topically with 0.25 mg/kg/day tazarotene gel during gestation days 6 through 18 were noted with single incidences of known retinoid malformations, including spina bifida, hydrocephaly, and heart anomalies. Systemic exposure (AUC) to tazarotenic acid at topical doses of 0.25 mg/kg/day tazarotene in a gel formulation in rats and rabbits were 15 and 166 times, respectively, the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area. As with other retinoids, when tazarotene was administered orally to experimental animals, developmental delays were seen in rats, and teratogenic effects and post-implantation loss were observed in rats and rabbits at doses 13 and 325 times, respectively, the AUC to tazarotenic acid in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area. In female rats orally administered 2 mg/kg/day tazarotene from 15 days before mating through gestation day 7, a number of classic developmental effects of retinoids were observed including decreased number of implantation sites, decreased litter size, decreased numbers of live fetuses, and decreased fetal body weights. A low incidence of retinoid-related malformations was also observed. AUC in rats was 42 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

8.3 Nursing Mothers After single topical doses of 14C-tazarotene to the skin of lactating rats, radioactivity was detected in milk, suggesting that there would be transfer of drug-related material to the offspring via milk. It is not known whether this drug is excreted in human milk. The safe use of Tazarotene Foam during lactation has not been established. A decision should be made whether to discontinue breastfeeding or to discontinue therapy with Tazarotene Foam taking into account the benefit of breastfeeding for the child and the benefit of therapy for the woman. 8.4 Pediatric Use The safety and effectiveness of Tazarotene Foam in pediatric patients younger than 12 years have not been established. Clinical studies of Tazarotene Foam included 860 patients aged 12 to 17 years with acne vulgaris. 8.5 Geriatric Use Tazarotene Foam for the treatment of acne has not been clinically evaluated in persons over the age of 65.

10 OVERDOSAGE Excessive topical application of Tazarotene Foam may lead to marked redness, peeling, or discomfort [see Warnings and Precautions (5.2)]. Management of accidental ingestion or excessive application to the skin should be as clinically indicated. 11 DESCRIPTION Tazarotene Foam, 0.1% contains the compound tazarotene, a member of the acetylenic class of retinoids. It is for topical use only.

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A negative serum or urine result for pregnancy test having a sensitivity down to at least 25 mIU/mL for human chorionic gonadotropin (hCG) should be obtained within 2 weeks prior to therapy with Tazarotene Foam, which should begin during a normal menstrual period for females of childbearing potential. Advise patients of the need to use an effective method of contraception to avoid pregnancy [see Use in Specific Populations (8.1)]. 5.2 Local Irritation Tazarotene Foam should be used with caution in patients with a history of local tolerability reactions or local hypersensitivity. Retinoids should not be used on abraded or eczematous skin, as they may cause severe irritation. Contact with the mouth, eyes, and mucous membranes should be avoided. In case of accidental contact, rinse well with water. Some individuals may experience skin redness, peeling, burning, or excessive pruritus. If these effects occur, the medication should either be discontinued until the integrity of the skin is restored, or the dosing should be reduced to an interval the patient can tolerate. However, efficacy at reduced frequency of application has not been established. Weather extremes, such as wind or cold, may be more irritating to patients using Tazarotene Foam.

5.3 Potential Irritant Effect With Concomitant Topical Medications Concomitant topical acne therapy should be used with caution because a cumulative irritant effect may occur. If irritancy or dermatitis occurs, reduce frequency of application or temporarily interrupt treatment and resume once the irritation subsides. Treatment should be discontinued if the irritation persists. 5.4 Photosensitivity and Risk for Sunburn Because of heightened burning susceptibility, exposure to sunlight (including sunlamps) should be avoided. Patients must be warned to use sunscreens and protective clothing when using Tazarotene Foam. Patients with sunburn should be advised not to use Tazarotene Foam until fully recovered. Patients who may have considerable sun exposure due to their occupation and those patients with inherent sensitivity to sunlight should exercise particular caution when using Tazarotene Foam and ensure that the precautions are observed [see FDA-approved patient labeling]. Due to the potential for photosensitivity resulting in greater risk for sunburn, Tazarotene Foam should be used with caution in patients with a personal or family history of skin cancer. Tazarotene Foam should be administered with caution if the patient is also taking drugs known to be photosensitizers (e.g., thiazides, tetracyclines, fluoroquinolones, phenothiazines, sulfonamides) because of the increased possibility of augmented photosensitivity.

5.5 Flammability The propellant in Tazarotene Foam is flammable. Instruct the patient to avoid fire, flame, and/or smoking during and immediately following application. 6 ADVERSE REACTIONS 6.1 Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice. The safety data reflect exposure to Tazarotene Foam in 744 subjects with acne vulgaris. Subjects were aged 12 to 45 years and were treated once daily in the evening for 12 weeks. Adverse reactions reported in ≥1% of subjects treated with Tazarotene Foam are presented in Table 1. Most adverse reactions were mild to moderate in severity. Severe adverse reactions represented 3.0% of the subjects treated. Overall, 2.7% (20/744) of subjects discontinued Tazarotene Foam because of local skin reactions.

6.2 Additional Adverse Reactions Additional adverse reactions that were reported in <1% of subjects treated with Tazarotene Foam included application site reactions (including discoloration, discomfort, edema, rash, and swelling), dermatitis, impetigo, and pruritus. Local skin reactions, dryness, erythema, and peeling actively assessed by the investigator and burning/stinging and itching reported by the subject were evaluated at baseline, during treatment, and end of treatment. During the 12 weeks of treatment, each local skin reaction peaked at Week 2 and gradually reduced thereafter with the continued use of Tazarotene Foam.

6.3 Local Skin Reactions, Dryness, Erythema, and Peeling Actively Assessed by the Investigator and Burning/Stinging and Itching Reported by the Subject. During the 12 weeks of treatment, each local skin reaction peaked at Week 2 and gradually reduced thereafter with the continued use of Tazarotene Foam.

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6.6 Local Skin Reactions, Dryness, Erythema, and Peeling Actively Assessed by the Investigator and Burning/Stinging and Itching Reported by the Subject. During the 12 weeks of treatment, each local skin reaction peaked at Week 2 and gradually reduced thereafter with the continued use of Tazarotene Foam.

Table 1. Incidence of Adverse Reactions in ≥1% of Subjects Treated With Tazarotene Foam

	Tazarotene Foam N = 744	Vehicle Foam N = 741
Patients with any adverse reaction, n (%)	163 (22)	19 (3)
Application site irritation	107 (14)	9 (1)
Application site dryness	50 (7)	8 (1)
Application site erythema	48 (6)	3 (<1)
Application site exfoliation	44 (6)	3 (<1)
Application site pain	9 (1)	0
Application site photosensitivity (including sunburn)	8 (1)	3 (<1)
Application site pruritus	7 (1)	3 (<1)
Application site dermatitis	6 (1)	1 (<1)

Additional adverse reactions that were reported in <1% of subjects treated with Tazarotene Foam included application site reactions (including discoloration, discomfort, edema, rash, and swelling), dermatitis, impetigo, and pruritus. Local skin reactions, dryness, erythema, and peeling actively assessed by the investigator and burning/stinging and itching reported by the subject were evaluated at baseline, during treatment, and end of treatment. During the 12 weeks of treatment, each local skin reaction peaked at Week 2 and gradually reduced thereafter with the continued use of Tazarotene Foam.

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Local Irritation: Use with caution in patients with a history of local tolerability reactions or local hypersensitivity. (5.2) Potential Irritant Effect with Concomitant Topical Medications: Use with caution because a cumulative irritant effect may occur. (5.3) Photosensitivity and Risk for Sunburn: Avoid exposure to sunlight, sunlamps, and weather extremes; Wear sunscreen daily. (5.4) Contents are flammable. Instruct the patient to avoid fire, flame, and smoking during and immediately following application. (5.5)

ADVERSE REACTIONS Most common adverse reactions reported at an incidence ≥6% are application site irritation, application site dryness, application site erythema, and application site exfoliation. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Mayne Pharma at 1-844-825-8500 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS Avoid concomitant dermatologic medications and cosmetics that have a strong drying effect. (7)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 01/2021

8.3 Nursing Mothers 8.4 Pediatric Use 8.5 Geriatric Use

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13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

14 CLINICAL STUDIES 16 HOW SUPPLIED/STORAGE AND HANDLING 17 PATIENT COUNSELING INFORMATION Inform the patient of the following:

*Sections or subsections omitted from the full prescribing information are not listed.

teratogenic and developmental effects associated with retinoids after topical or systemic administration in rats and rabbits [see Use in Specific Populations (8.1)]. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, treatment should be discontinued and the patient apprised of the potential hazard to the fetus [see Warnings and Precautions (5.1), Use in Specific Populations (8.1)].

5 WARNINGS AND PRECAUTIONS 5.1 Fetal Risk Systemic exposure to tazarotenic acid is dependent upon the extent of the body surface area treated. In patients treated topically over sufficient body surface area, exposure could be in the same order of magnitude as in orally treated animals. Tazarotene is a teratogenic substance, and it is not known what level of exposure is required for teratogenicity in humans [see Clinical Pharmacology (12)]. There were 5 reported pregnancies in subjects who participated in clinical trials for topical tazarotene foam. One of the subjects was found to have been treated with topical tazarotene for 25 days, 2 were treated with vehicle foam, and the other 2 did not receive either tazarotene foam or vehicle foam. The subjects were discontinued from the trials when their pregnancy was reported. The one pregnant woman who was inadvertently exposed to topical tazarotene during the clinical trial delivered a full-term healthy infant. Females of Childbearing Potential: Females of child-bearing potential should be warned of the potential risk and use adequate birth-control measures when tazarotene foam is used. The possibility of pregnancy should be considered in females of child-bearing potential at the time of institution of therapy.

There were 5 reported pregnancies in subjects who participated in clinical trials for topical tazarotene foam. One of the subjects was found to have been treated with topical tazarotene for 25 days, 2 were treated with vehicle foam, and the other 2 did not receive either tazarotene foam or vehicle foam. The subjects were discontinued from the trials when their pregnancy was reported. The one pregnant woman who was inadvertently exposed to topical tazarotene during the clinical trial delivered a full-term healthy infant.

Females of Childbearing Potential: Females of child-bearing potential should be warned of the potential risk and use adequate birth-control measures when tazarotene foam is used. The possibility of pregnancy should be considered in females of child-bearing potential at the time of institution of therapy.

Additional adverse reactions that were reported in <1% of subjects treated with Tazarotene Foam included application site reactions (including discoloration, discomfort, edema, rash, and swelling), dermatitis, impetigo, and pruritus.

Local skin reactions, dryness, erythema, and peeling actively assessed by the investigator and burning/stinging and itching reported by the subject were evaluated at baseline, during treatment, and end of treatment. During the 12 weeks of treatment, each local skin reaction peaked at Week 2 and gradually reduced thereafter with the continued use of Tazarotene Foam.

HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use Tazarotene Foam safely and effectively. See full prescribing information for Tazarotene Foam. Tazarotene Foam, 0.1%, for topical use Initial U.S. Approval: 1997 INDICATIONS AND USAGE Tazarotene Foam is a retinoid indicated for the topical treatment of acne vulgaris in patients 12 years of age or older. (1) DOSAGE AND ADMINISTRATION Apply a thin layer to the entire affected areas of the face and/or upper trunk once daily in the evening. Avoid the eyes, lips, and mucous membranes. Wash hands after application. (2) DOSAGE FORMS AND STRENGTHS 0.1%, foam. (3) CONTRAINDICATIONS Pregnancy. (4, 8.1) WARNINGS AND PRECAUTIONS Fetal Risk: Tazarotene Foam contains tazarotene, which is a teratogenic substance. Tazarotene Foam is contraindicated in pregnancy. Females of childbearing potential should have a negative pregnancy test within 2 weeks prior to initiating treatment and use an effective method of contraception during treatment. (5.1)

FULL PRESCRIBING INFORMATION: CONTENTS* 1 INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION 3 DOSAGE FORMS AND STRENGTHS 4 CONTRAINDICATIONS 5 WARNINGS AND PRECAUTIONS 5.1 Fetal Risk 5.2 Local Irritation 5.3 Potential Irritant Effect With Concomitant Topical Medications 5.4 Photosensitivity and Risk for Sunburn 5.5 Flammability 6 ADVERSE REACTIONS 6.1 Clinical Trials Experience 7 DRUG INTERACTIONS 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy 8.3 Nursing Mothers 8.4 Pediatric Use 8.5 Geriatric Use 10 OVERDOSAGE 11 DESCRIPTION 12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action 12.2 Pharmacodynamics 12.3 Pharmacokinetics 13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility 14 CLINICAL STUDIES 16 HOW SUPPLIED/STORAGE AND HANDLING 17 PATIENT COUNSELING INFORMATION Inform the patient of the following: *Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION 1 INDICATIONS AND USAGE Tazarotene Foam, 0.1% is indicated for the topical treatment of acne vulgaris in patients 12 years of age or older. 2 DOSAGE AND ADMINISTRATION Tazarotene Foam is for topical use only. Tazarotene Foam is not for oral, ophthalmic, or intravaginal use. Tazarotene Foam should be applied once daily in the evening after washing with a mild cleanser and fully drying the affected area. Dispense a small amount of foam into the palm of the hand. Using fingertips, apply only enough foam to lightly cover the entire affected areas of the face and/or upper trunk with a thin layer; gently massage the foam into the skin until the foam disappears. Avoid the eyes, lips, and mucous membranes. Wash hands after application. Patients may use moisturizer as needed. If undue irritation (redness, peeling, or discomfort) occurs, patients should reduce frequency of application or temporarily interrupt treatment. Treatment may be resumed once irritation subsides. Treatment should be discontinued if irritation persists. 3 DOSAGE FORMS AND STRENGTHS 0.1%, white to off-white foam 4 CONTRAINDICATIONS Tazarotene Foam is contraindicated in pregnancy. Tazarotene Foam may cause fetal harm when administered to a pregnant woman. Tazarotene elicits

How should I use Tazarotene Foam?

- Use Tazarotene Foam exactly as your doctor tells you to. Do not use more Tazarotene Foam than prescribed and do not use it more often than your doctor tells you to.
- If you are a female and have menstrual periods, begin using Tazarotene Foam during a normal menstrual period to help assure that you are not pregnant when you begin use. See "Who should not use Tazarotene Foam?"
- Tazarotene Foam is flammable. Avoid fire, flame, and smoking during and right after you apply Tazarotene Foam.
- Gently clean the affected area (face and/or upper trunk) with a mild cleanser and dry completely before using Tazarotene Foam.
- Apply Tazarotene Foam one time each day, before going to bed, to the affected areas (face and/or upper trunk) where you have acne lesions. Use enough foam to cover the entire affected area with a thin film of Tazarotene Foam.
- Keep Tazarotene Foam away from your eyes, mouth, and vagina. If Tazarotene Foam comes into contact with your eyes, rinse them well with water.
- Wash your hands after applying Tazarotene Foam.
- If you use too much Tazarotene Foam, you may get redness, peeling, or skin irritation in the treated area. Call your doctor if this happens, or if you accidentally swallow Tazarotene Foam.
- Follow your doctor's directions for other routine skin care and the use of make-up.
- You may also use a moisturizer as needed.

Instructions for applying Tazarotene Foam

- Shake the Tazarotene Foam can before use.
- Remove cap from can. See Figure A.



Figure A

- Hold the Tazarotene Foam can upright at a slight angle and press the nozzle. See Figure B.



Figure B

- Dispense a small amount of Tazarotene Foam into the palm of your hand. See Figure C.



Figure C

Patient Information

Tazarotene Foam

Important: For skin use only. Do not get Tazarotene Foam in your eyes, mouth, or vagina.

Read the Patient Information that comes with Tazarotene Foam before you start using it and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical condition or treatment.

What is Tazarotene Foam?

Tazarotene Foam is a prescription medicine used on the skin (topical) to treat acne in people 12 years and older.

It is not known if Tazarotene Foam is safe and effective in children under 12 years of age.

Who should not use Tazarotene Foam?

Do not use Tazarotene Foam if you are pregnant or plan to become pregnant. Tazarotene Foam may harm your unborn baby, if used during pregnancy.

If you are a female who can become pregnant:

- Use an effective method of birth control during treatment with Tazarotene Foam. Talk with your doctor about birth control methods that are right for you during treatment with Tazarotene Foam.
- Your doctor should do a blood or urine pregnancy test within 2 weeks before you begin to use Tazarotene Foam to be sure you are not pregnant.
- If you have menstrual periods, begin using Tazarotene Foam during a normal menstrual period to help assure that you are not pregnant when you begin use.

Stop using Tazarotene Foam and call your doctor right away if you become pregnant during treatment with Tazarotene Foam.

What should I tell my doctor before using Tazarotene Foam?

- Before you use Tazarotene Foam, tell your doctor if you: or a family member have or had skin cancer. have eczema. have had a reaction to topical products in the past. have any condition that makes you sensitive to light. have any other medical conditions. are pregnant or plan to become pregnant. See "Who should not use Tazarotene Foam?" are breastfeeding or plan to breastfeed. It is not known if tazarotene passes into your breast milk. You and your doctor should decide if you will use Tazarotene Foam or breastfeed. You should not do both. Talk to your doctor about the best way to feed your baby if you use Tazarotene Foam.

Tell your doctor about all the medicines you take including prescription and nonprescription medicines, vitamins, and herbal supplements.

Especially tell your doctor if you:

- use other medicines or products that make your skin dry
- take other medicines that may increase your sensitivity to sunlight

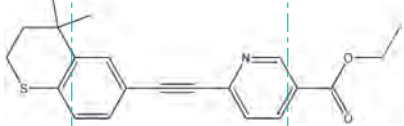
Ask your doctor or pharmacist if you are not sure if your medicine is one that is listed above.

Know the medicines you take. Keep a list of your medicines and show it to your doctor and pharmacist when you get a new medicine.

PHARMACIST — DETACH HERE AND GIVE INSTRUCTIONS TO PATIENT

Tazarotene Foam

Chemically, tazarotene is ethyl 6-[(4,4-dimethylthiochroman-6-yl)ethynyl]nicotinate. The structural formula is represented below:



Molecular Formula: C₂₇H₂₁NO₂S

Molecular Weight: 351.46

Tazarotene is a pale yellow to yellow substance. Tazarotene Foam contains tazarotene, 1 mg/g, in aqueous-based white to off-white foam vehicle consisting of butylated hydroxytoluene, cetareth-12, citric acid anhydrous, diisopropyl adipate, light mineral oil, potassium citrate monohydrate, potassium sorbate, purified water, and sorbic acid. Tazarotene Foam is dispensed from an aluminum can pressurized with a hydrocarbon (propane/n-butane/isobutane) propellant.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Tazarotene is a retinoid prodrug that is converted to its active form, the cognate carboxylic acid of tazarotene, by rapid deesterification in animals and man. Tazarotenic acid binds to all 3 members of the retinoid acid receptor (RAR) family: RAR α , RAR β , and RAR γ , but shows relative selectivity for RAR β and RAR γ and may modify gene expression. The clinical significance of these findings is unknown.

The mechanism of tazarotene action in acne vulgaris is not defined. However, the basis of tazarotene's therapeutic effect in acne may be due to its anti-hyperproliferative, normalizing-of-differentiation and anti-inflammatory effects. Tazarotene inhibited corneocyte accumulation in rhino mouse skin and cross-linked envelope formation in cultured human keratinocytes. The clinical significance of these findings is unknown.

12.2 Pharmacodynamics

The pharmacodynamics of Tazarotene Foam are unknown.

12.3 Pharmacokinetics

Following topical application, tazarotene undergoes esterase hydrolysis to form its active metabolite, tazarotenic acid. Tazarotenic acid was highly bound to plasma proteins (greater than 99%). Tazarotene and tazarotenic acid were metabolized to sulfoxides, sulfones, and other polar metabolites which were eliminated through urinary and fecal pathways.

Systemic exposure following topical application of Tazarotene Foam 0.1% was evaluated in one trial. Patients aged 15 years and older with moderate-to-severe acne applied approximately 3.7 grams of Tazarotene Foam 0.1% (N = 13) to approximately 15% body surface area (face, upper chest, upper back, and shoulders) once daily for 22 days. On Day 22, the mean (\pm SD) tazarotenic acid C_{max} was 0.43 (\pm 0.19) ng/mL, the AUC_{0-24h} was 6.98 (\pm 3.56) ng·h/mL, and the half-life was 21.7 (\pm 15.7) hours. The median T_{max} was 6 hours (range: 4.4 to 12 hours). The AUC_{0-24h} for tazarotenic acid was approximately 50-fold higher compared with the parent compound tazarotene. The mean (\pm SD) half-life of tazarotene was 8.1 (\pm 3.7) hours.

Accumulation was observed upon repeated once-daily dosing as the tazarotenic acid predose concentrations were measurable in the majority of subjects. Steady state was attained within 22 days of daily application. Once-daily dosing resulted in little to no accumulation of tazarotene as predose concentrations were mostly below the quantitation limit throughout the study.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenesis: A long-term study of tazarotene following oral administration of 0.025, 0.050, and 0.125 mg/kg/day to rats showed no indications of increased carcinogenic risk. Based on pharmacokinetic data from a shorter-term study in rats, the highest dose of 0.125 mg/kg/day was anticipated to give systemic exposure in rats approximately 2 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

A long-term topical application study of up to 0.1% tazarotene in a gel formulation in mice terminated at 88 weeks showed that dose levels of 0.05, 0.125, 0.25, and 1 mg/kg/day (reduced to 0.5 mg/kg/day for males after 41 weeks due to severe dermal irritation) revealed no apparent carcinogenic effects when compared with vehicle control animals. AUC at the highest dose in mice was 49 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

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In evaluation of photocarcinogenicity, median time to onset of tumors was decreased, and the number of tumors increased in hairless mice following chronic topical dosing with exposure to ultraviolet radiation at tazarotene concentrations of 0.001%, 0.005%, and 0.01% in a gel formulation for up to 40 weeks.

Mutagenesis: Tazarotene was non-mutagenic in the Ames assay and did not produce structural chromosomal aberrations in a human lymphocyte assay. Tazarotene was non-mutagenic in the CHO/HGPRT mammalian cell forward gene mutation assay and was non-clastogenic in the in vivo mouse micronucleus test.

Impairment of Fertility: No impairment of fertility was observed in rats when male animals were treated for 70 days prior to mating and female animals were treated for 14 days prior to mating and continuing through gestation and lactation with topical doses of tazarotene gel up to 0.125 mg/kg/day. Based on data from another study, the systemic drug exposure at the 0.125 mg/kg/day dose in rats would be equivalent to 7.6 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

No impairment of mating performance or fertility was observed in male rats treated for 70 days prior to mating with oral doses of up to 1 mg/kg/day tazarotene. AUC at the highest dose in rats was 23 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

No effect on parameters of mating performance or fertility was observed in female rats treated for 15 days prior to mating and continuing through gestation day 7 with oral doses of tazarotene up to 2 mg/kg/day. However, there was a significant decrease in the number of estrous stages and an increase in developmental effects at that dose (see *Pregnancy (8.1)*). AUC at the highest dose in rats was 42 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

Reproductive capabilities of F1 animals, including F2 survival and development, were not affected by topical administration of tazarotene gel to female F0 parental rats from gestation day 16 through lactation day 20 at the maximum tolerated dose of 0.125 mg/kg/day. Based on data from another study, the AUC in rats would be equivalent to 7.6 times the AUC in acne patients treated with 2 mg/cm² of Tazarotene Foam 0.1% over a 15% body surface area.

14 CLINICAL STUDIES

In 2 multi-center, randomized, double-blind, vehicle-controlled trials, a total of 1,485 subjects with moderate-to-severe acne vulgaris were randomized 1:1 to Tazarotene Foam or vehicle applied once daily for 12 weeks. Acne severity was evaluated using lesion counts and the 6-point Investigator's Global Assessment (IGA) scale (see Table 2). At baseline, 80% of subjects were graded as "moderate" or Grade 3 and 20% were graded as "severe" or Grade 4 on the IGA scale. At baseline, subjects had an average of 79.8 total lesions of which the mean number of inflammatory lesions was 31.9 and the mean number of non-inflammatory lesions was 47.8. Subjects ranged in age from 12 to 45 years, with 860 (58%) subjects aged 12 to 17 years; 428 (29%) subjects aged 18 to 25 years; 143 (10%) subjects aged 26 to 35 years and 54 (4%) subjects aged 36 to 45 years. Subjects enrolled in the trials by race were white (77%), black (15%), Asian (4%), and other (4%). Hispanics comprised 18% of the population. An equal number of males (49%) and females (51%) were enrolled. Treatment success was defined as a score of "clear" (Grade 0) or "almost clear" (Grade 1) and at least 2-grade improvement from the baseline score to Week 12.

Table 2. Investigator's Global Assessment Scale

Grade	Description
0	Clear Clear skin with no inflammatory or non-inflammatory lesions.
1	Almost clear Rare non-inflammatory lesions with no more than rare papules.
2	Mild Greater than Grade 1, some non-inflammatory lesions with no more than a few inflammatory lesions (papules/pustules only, no nodular lesions).
3	Moderate Greater than Grade 2, up to many non-inflammatory lesions and may have some inflammatory lesions, but no more than one small nodular lesion.
4	Severe Greater than Grade 3, up to many non-inflammatory and inflammatory lesions, but no more than a few nodular lesions.
5	Very severe Many non-inflammatory and inflammatory lesions and more than a few nodular lesions. May have cystic lesions.

Absolute and percent reductions in lesion counts and the IGA scale after 12 weeks of treatment in these 2 trials are shown in Table 3. Each trial needed to have a statistically significant reduction in 2 out of 3 lesion counts at Week 12.

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Table 3. Reductions in Lesion Counts and Improvements in Investigator's Global Assessment at Week 12

	Trial 1		Trial 2	
	Tazarotene Foam N = 371	Vehicle Foam N = 372	Tazarotene Foam N = 373	Vehicle Foam N = 369
Inflammatory Lesions Mean absolute reduction from Baseline Mean percent reduction from Baseline	18.0 58%	14.0 45%	18.0 55%	15.0 45%
Non-inflammatory Lesions Mean absolute reduction from Baseline Mean percent reduction from Baseline	28.0 55%	17.0 33%	26.0 57%	18.0 41%
Total Lesions Mean absolute reduction from Baseline Mean percent reduction from Baseline	46.0 56%	31.0 39%	43.0 56%	33.0 43%
Investigator's Global Assessment (IGA), n (%) Minimum 2-grade improvement and IGA of 0 or 1	107 (29%)	60 (16%)	103 (28%)	49 (13%)

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied:

Tazarotene Foam, 0.1% (1 mg/g) is a white to off-white foam, supplied as follows:
50-g aluminum can NDC 68308-685-50

Storage and Handling:

- Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F). See USP controlled room temperature.
- Store upright.
- Protect from freezing.
- Flammable. Avoid fire, flame, or smoking during and immediately following application. Contents under pressure. Do not puncture or incinerate. Do not expose to heat or store at temperatures above 120°F (49°C).
- Shake can before use. Hold can at an upright angle and press firmly to dispense.

17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information)

Inform the patient of the following:

- Fetal risk associated with Tazarotene Foam for females of childbearing potential. Advise patients to use an effective method of contraception during treatment to avoid pregnancy. Advise the patient to stop medication if she becomes pregnant and call her doctor.
- If undue irritation (redness, peeling, or discomfort) occurs, reduce frequency of application or temporarily interrupt treatment. Treatment may be resumed once irritation subsides.
- Do not place Tazarotene Foam in the freezer.
- Avoid exposure of the treated areas to either natural or artificial sunlight, including tanning beds and sun lamps.
- Avoid contact with the eyes. If Tazarotene Foam gets in or near their eyes, to rinse thoroughly with water.
- Wash their hands after applying Tazarotene Foam.
- Avoid fire, flame, or smoking during and immediately following application since Tazarotene Foam is flammable.
- Keep out of the reach of children.
- Not for ophthalmic, oral, or intravaginal use.

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Tazarotene Foam (cont)

5. Use the fingertips of your other hand to apply enough Tazarotene Foam to cover the affected area with a thin layer. Gently rub the foam into the affected area until it disappears into the skin. See Figure D.



Figure D

6. Wash hands after applying Tazarotene Foam. See Figure E.



Figure E

Avoid getting Tazarotene Foam in your eyes, mouth, or vagina.

What should I avoid while using Tazarotene Foam?

- Avoid using abrasive soaps or cleansers that might dry or irritate your skin, unless your doctor tells you it is ok.
- Avoid sunlight. Tazarotene Foam can make your skin sensitive to sunlight and the light from sunlamps or tanning beds. You could get a sunburn. Use sunscreen and protective clothing during the day if you must be in sunlight.
- Avoid using Tazarotene Foam if you have a sunburn. If you have a sunburn, wait until it is fully healed before using Tazarotene Foam.
- Talk to your doctor before using Tazarotene Foam if you are sensitive to sunlight, take medications that increase your sensitivity to sunlight, or you must spend a lot of time in the sun for your job.
- Avoid weather extremes, such as wind and cold, because they may irritate your skin more while you are using Tazarotene Foam.

What are the possible side effects of Tazarotene Foam?

Tazarotene Foam may harm your unborn baby, if used during pregnancy.

- Do not use Tazarotene Foam during pregnancy. See "Who should not use Tazarotene Foam?"

The most common side effects of Tazarotene Foam are:

- burning or stinging
- dry skin
- red skin
- peeling or flaking skin

Sometimes these symptoms can become severe and may be uncomfortable. Tell your doctor if these side effects become uncomfortable for you. Your doctor may tell you to stop using Tazarotene Foam until your skin heals and your symptoms improve, or to use Tazarotene Foam less often to help you tolerate it better.

These are not all the possible side effects of Tazarotene Foam. For more information, ask your doctor or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

You may also report side effects to Mayne Pharma at 1-844-825-8500.

How should I store Tazarotene Foam?

- Store Tazarotene Foam at room temperature between 68°F to 77°F (20°C to 25°C).
- Store Tazarotene Foam upright.
- Do not freeze Tazarotene Foam.
- Tazarotene Foam is flammable. Keep the can away from fire and heat. Do not spray Tazarotene Foam near fire or direct heat.
- Do not puncture the can or throw it into a fire, even if the can is empty.

Keep Tazarotene Foam and all medicines out of the reach of children.

General Information about Tazarotene Foam

Medicines are sometimes prescribed for purposes other than those listed in Patient Information leaflets. Do not use Tazarotene Foam for a condition for which it was not prescribed. Do not give Tazarotene Foam to other people even if they have the same symptoms that you have. It may harm them.

This Patient Information leaflet summarizes the most important information about Tazarotene Foam. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about Tazarotene Foam that is written for health professionals.

What are the ingredients in Tazarotene Foam?

Active ingredient: tazarotene

Inactive ingredients: butylated hydroxytoluene, cetareth-12, citric acid anhydrous, diisopropyl adipate, light mineral oil, potassium citrate monohydrate, potassium sorbate, purified water, and sorbic acid. The foam is dispensed from an aluminum can pressurized with a hydrocarbon (propane/n-butane/isobutane) propellant.

This Patient Information has been approved by the U.S. Food and Drug Administration.

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Rev. 01/2021

