

Talk to your doctor if you get a sunburn during treatment with tazarotene cream. If you get a sunburn, do not use tazarotene cream until your sunburn is healed.

What are the possible side effects of tazarotene cream?

Tazarotene cream may cause serious side effects, including:

- Skin irritation.** Tazarotene cream may cause itching, burning, redness, and peeling of your skin. Also, wind or cold weather may be more irritating to your skin while you are using tazarotene cream. Tell your doctor if you develop any of these symptoms of skin irritation with tazarotene cream. Your doctor may tell you to stop using tazarotene cream until your skin heals, change your dose of tazarotene cream, or your doctor may tell you to use it less often, if you get too much skin irritation.

The most common side effects of tazarotene cream in people with plaque psoriasis include:

- itching
- redness
- burning

The most common side effects of tazarotene cream in people with acne include:

- peeling
- dry skin
- redness
- burning

Tell your doctor if you have any side effect that bothers you or that does not go away.

These are not all the possible side effects of tazarotene cream. 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.

How should I store tazarotene cream?

- Store tazarotene cream at room temperature between 68°F to 77°F (20°C to 25°C).

Keep tazarotene cream and all medicines out of the reach of children.

General information about the safe and effective use of tazarotene cream.

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

If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about tazarotene cream that is written for health professionals.

For more information call 1-800-433-8871.

What are the ingredients in tazarotene cream?

Active ingredient: tazarotene

Inactive ingredients: benzyl alcohol 1%, Carbomer 1342, carbomer homopolymer type B, edetate disodium, medium chain triglycerides, mineral oil, purified water, sodium hydroxide, sodium thiosulfate, and sorbitan monooleate

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carcinogenic effects when compared to vehicle control animals. Systemic exposures at the highest dose was 3.9 times that seen in a psoriatic patient treated with 0.1% tazarotene cream at 2 mg/cm² over a 35% body surface area in a controlled pharmacokinetic study, and 13 times the maximum systemic exposure in acne patients treated with tazarotene cream, 0.1% at 2 mg/cm² over a 15% body surface area.

In evaluation of photo co-carcinogenicity, median time to onset of tumors was decreased, and the number of tumors increased in hairless mice following chronic topical dosing with intermittent 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 found to be 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 occurred 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 in the rat would be equivalent to 0.6 times that observed in a psoriatic patient treated with 0.1% tazarotene cream at 2 mg/cm² over a 35% body surface area in a controlled pharmacokinetic study, and 2 times the maximum systemic exposure in acne patients treated with tazarotene cream, 0.1% at 2 mg/cm² 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. That dose produced a systemic exposure that was 1.9 times that observed in a psoriatic patient treated with 0.1% tazarotene cream at 2 mg/cm² over a 35% body surface area, and 6.3 times the maximum systemic exposure in acne patients treated with tazarotene cream, 0.1% at 2 mg/cm² over a 15% body surface area.

No impairment 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 up to 2 mg/kg/day of tazarotene. However, there was a significant decrease in the number of estrous stages and an increase in developmental effects at that dose [*see Use in Specific Populations (8.1)*]. That dose produced a systemic exposure that was 3.4 times that observed in a psoriatic patient treated with 0.1% tazarotene cream at 2 mg/cm² over a 35% body surface area and 11 times the maximum systemic exposure in acne patients treated with tazarotene cream, 0.1% at 2 mg/cm² 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 systemic drug exposure in the rat would be equivalent to 0.6 times that observed in a psoriatic patient treated with 0.1% tazarotene cream at 2 mg/cm² over a 35% body surface area, and 2 times the maximum systemic exposure in acne patients treated with tazarotene cream, 0.1% at 2 mg/cm² over a 15% body surface area.

14 CLINICAL STUDIES

In two 12-week vehicle-controlled clinical trials, tazarotene cream, 0.05% and 0.1% was significantly more effective than vehicle in reducing the severity of stable plaque psoriasis. Tazarotene cream, 0.1% and 0.05% demonstrated superiority over vehicle cream as early as 1 week and 2 weeks, respectively, after starting treatment.

In these trials, the primary efficacy endpoint was “clinical success,” defined as the proportion of subjects with none, minimal, or mild overall lesional assessment at Week 12, and shown in Table 1. “Clinical success” was also significantly greater with tazarotene cream, 0.05% and 0.1% versus vehicle at most follow-up visits.

Table 1. Subject Numbers and Percentages for Overall Lesional Assessment Scores and “Clinical Success” at Baseline (BL), End of Treatment (Week 12) and 12 Weeks After Stopping Therapy (Week 24)* in Two Controlled Clinical Trials for Psoriasis

Tazarotene Cream, 0.05%						
		Trial 1 N=218			Trial 2 N=210	
Score	BL	Wk 12	Wk 24	BL	Wk 12	
None (0)	0	1 (0.5%)	1 (0.5%)	0	2 (1%)	
Minimal (1)	0	11 (5%)	12 (6%)	0	7 (3%)	
Mild (2)	0	79 (36%)	60 (28%)	0	76 (36%)	
Moderate (3)	141 (65%)	86 (39%)	90 (41%)	100 (48%)	74 (35%)	
Severe (4)	69 (32%)	39 (18%)	51 (23%)	80 (38%)	36 (17%)	
Very Severe (5)	8 (4%)	2 (0.9%)	4 (2%)	30 (14%)	15 (7%)	
“Clinical Success”	0	91 (42%*)	73 (33%*)	0	85 (40%*)	

Tazarotene Cream, 0.1%						
		Trial 1 N=221			Trial 2 N=211	
Score	BL	Wk 12	Wk 24	BL	Wk 12	
None (0)	0	0	0	0	6 (3%)	
Minimal (1)	0	12 (5%)	14 (6%)	0	11 (5%)	
Mild (2)	0	75 (34%)	53 (24%)	0	90 (43%)	
Moderate (3)	122 (55%)	97 (44%)	107 (48%)	96 (45%)	62 (29%)	
Severe (4)	91 (41%)	36 (16%)	46 (21%)	86 (41%)	29 (14%)	
Very Severe (5)	8 (4%)	1 (0.5%)	1 (0.5%)	29 (14%)	13 (6%)	
“Clinical Success”	0	87 (39%*)	67 (30%*)	0	107 (51%*)	

Vehicle Cream						
		Trial 1 N=229			Trial 2 N=214	
Score	BL	Wk 12	Wk 24	BL	Wk 12	
None (0)	0	0	1 (0.4%)	0	1 (0.5%)	
Minimal (1)	0	7 (3%)	6 (3%)	0	1 (0.5%)	
Mild (2)	0	49 (21%)	43 (19%)	0	54 (25%)	
Moderate (3)	139 (61%)	119 (52%)	114 (50%)	97 (45%)	99 (46%)	
Severe (4)	81 (35%)	51 (22%)	61 (27%)	93 (44%)	47 (22%)	
Very Severe (5)	9 (4%)	3 (1%)	4 (2%)	24 (11%)	12 (6%)	
“Clinical Success”	0	56 (24%)	50 (22%)	0	56 (26%)	

0 no plaque elevation above normal skin level; may have residual non-erythematous discoloration; no psoriatic scale
1 essentially flat with possible trace elevation; may have up to moderate erythema (red coloration); no psoriatic scale
2 slight but definite elevation of plaque above normal skin level; may have up to moderate erythema (red coloration); fine scales with some lesions partially covered
3 moderate elevation with rounded or sloped edges to plaque; moderate erythema (red coloration); somewhat coarser scales with most lesions partially covered
4 marked elevation with hard, sharp edges to plaque; severe erythema (very red coloration); thick scales with virtually all lesions covered and a rough surface
5 very marked elevation with very hard, sharp edges to plaque; very severe erythema (extreme red coloration); very coarse, thick scales with all lesions covered and a very rough surface
Clinical Success defined as an overall lesional assessment score of none, minimal, or mild.
Trial 1 had post-treatment period observations for 12 weeks after stopping therapy, which were not part of Trial 2.
* Denotes statistically significant difference for “Clinical Success” compared with vehicle.

At the end of 12 weeks of treatment, tazarotene cream, 0.05% and 0.1% was consistently superior to vehicle in reducing the plaque thickness of psoriasis. Improvements in erythema and scaling were generally significantly greater with tazarotene cream, 0.05% and 0.1% than with vehicle. Tazarotene cream, 0.1% was also generally more effective than tazarotene cream, 0.05% in reducing the severity of the individual signs of disease. However, tazarotene cream, 0.1% was associated with a greater degree of local irritation than tazarotene cream, 0.05%.

Table 2. Mean Decreases in Plaque Elevation, Scaling and Erythema in Two Controlled Clinical Trials for Psoriasis

		Tazarotene Cream, 0.05%					
Lesion		Trunk/Arm/Leg lesions		Knee/Elbow lesions		All Treated	
		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2
		N=218	N=210	N=218	N=210	N=218	N=210
Plaque elevation	B# C-12 C-24	2.29 -0.83* -0.75*	2.50 -0.98* -0.91*	2.40 -0.91* -0.73*	2.52 -1.04* -0.75*	2.28 -0.75* -0.60*	2.51 -0.90*
Scaling	B# C-12 C-24	2.26 -0.75 -0.68	2.45 -0.90 -0.90	2.47 -0.78* -0.62*	2.60 -0.98* -0.78*	2.32 -0.67* -0.51*	2.47 -0.80
Erythema	B# C-12 C-24	2.26 -0.49 -0.52	2.51 -0.65* -0.44	2.17 -0.44 -0.44	2.40 -0.66* -0.44	2.23 -0.40 -0.41	2.48 -0.62

		Tazarotene Cream, 0.1%					
Lesion		Trunk/Arm/Leg lesions		Knee/Elbow lesions		All Treated	
		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2
		N=221	N=211	N=221	N=211	N=221	N=211
Plaque elevation	B# C-12 C-24	2.34 -1.08* -0.87*	2.52 -1.25* -0.96*	2.35 -0.96* -0.73*	2.49 -1.21* -0.73*	2.32 -0.83* -0.63*	2.51 -1.08*
Scaling	B# C-12 C-24	2.37 -0.84* -0.79*	2.45 -1.06* -0.79*	2.40 -0.76* -0.61*	2.57 -1.13* -0.76*	2.36 -0.73* -0.59*	2.53 -1.03*
Erythema	B# C-12 C-24	2.25 -0.49 -0.55	2.53 -0.82* -0.52*	2.17 -0.57* -0.52*	2.42 -0.82* -0.44	2.21 -0.42* -0.39*	2.51 -0.78*

Vehicle Cream							
Lesion		Trunk/Arm/Leg lesions		Knee/Elbow lesions		All Treated	
		Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2
		N=229	N=214	N=229	N=214	N=229	N=214
Plaque elevation	B# C-12 C-24	2.28 -0.59 -0.57	2.51 -0.69 -0.49	2.35 -0.57 -0.49	2.51 -0.68 -0.42	2.29 -0.48 -0.42	2.51 -0.61
Scaling	B# C-12 C-24	2.34 -0.66 -0.56	2.46 -0.79 -0.45	2.45 -0.62 -0.45	2.61 -0.76 -0.34	2.31 -0.46 -0.34	2.53 -0.70
Erythema	B# C-12 C-24	2.24 -0.42 -0.43	2.47 -0.46 -0.38	2.17 -0.38 -0.34	2.34 -0.44 -0.34	2.24 -0.37 -0.33	2.47 -0.47

Plaque elevation, scaling and erythema scored on a 0-4 scale with 0=none, 1=mild, 2=moderate, 3=severe and 4=very severe.
B#–Mean Baseline Severity;
C-12–Mean Change from Baseline at end of 12 weeks of therapy;
C-24–Mean Change from Baseline at week 24 (12 weeks after the end of therapy).
*Denotes statistically significant difference compared with vehicle.

Acne:

In two large vehicle-controlled trials, subjects age 12 years and over with facial acne vulgaris of a severity suitable for monotherapy with a topical agent were enrolled. After face cleansing in the evening, tazarotene cream, 0.1% was applied once daily to the entire face as a thin layer. Tazarotene cream, 0.1% was significantly more effective than vehicle in the treatment of facial acne vulgaris. Efficacy results after 12 weeks of treatment are shown in Table 3:

Table 3. Efficacy Results after Twelve Weeks of Treatment in Two Controlled Clinical Trials for Acne

	Tazarotene Cream, 0.1%		Vehicle Cream	
	Trial 1 N=218	Trial 2 N=206	Trial 1 N=218	Trial 2 N=205
Median Percent Reduction in				
• Noninflammatory lesions	46%*	41%*	27%	21%
• Inflammatory lesions	41%*	44%*	27%	25%
• Total lesions	44%*	42%*	24%	21%
Percent of Subjects with No Acne or Minimal Acne	18%*	20%*	11%	6%
Percent of Subjects with No Acne, Minimal Acne, or Mild Acne	55%*	53%*	36%	36%

*Denotes statistically significant difference compared with vehicle.

16 HOW SUPPLIED/STORAGE AND HANDLING

Tazarotene cream is a white cream available in concentrations of 0.05% and 0.1%. It is supplied in a collapsible aluminum tube with a tamper-evident aluminum membrane over the opening and a white polypropylene screw cap, in 30 g and 60 g sizes.

	Tazarotene cream, 0.05%	Tazarotene cream, 0.1%
30 g	NDC 60758-556-30	NDC 60758-561-30
60 g	NDC 60758-556-60	NDC 60758-561-60

Storage: Store at 20°C to 25°C (68°F to 77°F). Excursions permitted from -5°C to 30°C (23°F to 86°F).

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Advise the patient of the following:

- Fetal risk associated with tazarotene cream 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 [*see Contraindications (4.1), Warnings and Precautions (5.1) and Use in Specific Populations (8.1)*].
- For the patient with psoriasis, apply tazarotene cream only to psoriasis skin lesions, avoiding uninvolved skin.
- If undue irritation (redness, peeling, or discomfort) occurs, reduce frequency of application or temporarily interrupt treatment. Treatment may be resumed once irritation subsides [*see Dosage and Administration (2.1)*].
- Moisturizers may be used as frequently as desired.
- Patients with psoriasis may use a cream or lotion to soften or moisten skin at least 1 hour before applying tazarotene cream.
- Avoid exposure of the treated areas to either natural or artificial sunlight, including tanning beds and sun lamps. Use sunscreen and protective clothing if exposure to sunlight is unavoidable when using tazarotene cream.
- Avoid contact with the eyes. If tazarotene cream gets in or near their eyes, rinse thoroughly with water.
- Not for ophthalmic, oral, or intravaginal use.
- Wash their hands after applying tazarotene cream.

Manufactured by: Allergan, Inc., Irvine, CA 92612, U.S.A.

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