

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use TOLAK CREAM safely and effectively. See full prescribing information for TOLAK CREAM.

TOLAK (fluorouracil) cream, 4%, for topical use
Initial US Approval: 1962

INDICATIONS AND USAGE

Tolak (fluorouracil) Cream, 4%, is a nucleoside metabolic inhibitor indicated for the topical treatment of actinic keratosis lesions of the face, ears, and scalp (1)

DOSAGE AND ADMINISTRATION

- Apply Tolak Cream once daily in an amount sufficient to cover the lesions of the face, ears, and/or scalp with a thin film, using the fingertips to gently massage the medication uniformly into the skin (2)
- Apply Tolak Cream after washing, rinsing, and drying the treatment area(s) (2)
- Tolak Cream should be applied for a period of 4 weeks as tolerated (2)
- Wash hands thoroughly following Tolak Cream application (2)
- Tolak Cream is for topical use only. Do not apply to eyes, nose, mouth or mucous membranes. Not for ophthalmic, oral, or intravaginal use (2)

DOSAGE FORMS AND STRENGTHS

Cream: 40 mg of fluorouracil per gram of cream (4%) (3)

CONTRAINDICATIONS

- Pregnancy (4.1, 8.1)
- Dihydropyrimidine dehydrogenase (DPD) deficiency (4.2)

WARNINGS AND PRECAUTIONS

- Application site adverse reactions are likely to occur during, and for 2 to 4 weeks after treatment of actinic keratosis with Tolak (5.1)
- Hypersensitivity reactions may occur with Tolak Cream (5.2)
- Increased sensitivity to ultraviolet light may occur during and immediately after treatment with Tolak (5.3)
- Fluorouracil may cause fetal harm when administered to a pregnant woman. Advise females of reproductive potential to use effective contraception (5.4)
- Increased fluorouracil exposures may occur in DPD deficiency. Discontinue Tolak Cream if symptoms of fluorouracil's systemic toxicity develop (5.5)

ADVERSE REACTIONS

The most common adverse reactions (incidence > 68%) are at the application site and include erythema, scaling/dryness, crusting, pruritus, stinging/burning, edema, and erosions. Erythema is observed in 99% of patients with actinic keratosis who are treated with Tolak (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Hill Dermaceuticals at 1-800-344-5707 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

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

Revised: 08/2022

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Tolak (fluorouracil) Cream is indicated for the topical treatment of actinic keratosis lesions of the face, ears, and/or scalp.

2 DOSAGE AND ADMINISTRATION

Prior to application of Tolak, wash, rinse, and dry the treatment areas. Apply Tolak Cream once daily in an amount sufficient to cover the lesions of the face, ears, and/or scalp with a thin film, using the fingertips to gently massage the medication uniformly into the skin. Apply Tolak Cream for a period of 4 weeks as tolerated. Thoroughly wash hands following Tolak Cream application.

Tolak Cream is for topical use only. Do not apply to eyes, nose, mouth or mucous membranes. Not for ophthalmic, oral or intravaginal use.

3 DOSAGE FORMS AND STRENGTHS

Cream: 40 mg of fluorouracil per gram (4%) of white cream in 40 gram tubes.

4 CONTRAINDICATIONS

Tolak is contraindicated:

- During pregnancy [*see Warnings and Precautions (5.4, 8.1)*]
- In patients with dihydropyrimidine dehydrogenase (DPD) deficiency [*see Warnings and Precautions (5.5)*]

4.1 Pregnancy

Tolak Cream may cause fetal harm when administered during pregnancy and is contraindicated in women who are -pregnant. If this drug is used during pregnancy, or if the patient becomes pregnant while using this drug, the patient should be apprised of the potential hazard to the fetus [*see Warnings and Precautions (5.4)*].

4.2 Dihydropyrimidine Dehydrogenase Deficiency

Tolak Cream is contraindicated in patients with dihydropyrimidine dehydrogenase (DPD) deficiency [*see Warnings and Precautions (5.5)*].

5 WARNINGS AND PRECAUTIONS

5.1 Application Site Adverse Reactions

Do not apply Tolak Cream directly into eyes, nose, mouth, or other mucous membranes because irritation, local inflammation and ulceration may occur. Avoid

applying Tolak Cream on the eyelids. Tolak Cream is not indicated for use on eyes, eyelids, nose, mouth, or mucous membranes.

Application site reactions (erythema, scaling/dryness, edema, crusting, erosions, stinging/burning, and pruritus) were observed in almost all patients during treatment of actinic keratosis on the face, ears, and/or scalp with topical fluorouracil [see *Adverse Reactions* (6.1)]. In the clinical trials of Tolak Cream, application site irritation returned to baseline (pre-treatment) levels within 4 weeks after discontinuing treatment.

5.2 Hypersensitivity Reactions

Allergic contact dermatitis (delayed type hypersensitivity reaction) has been noted for topical fluorouracil drugs. While application site reactions are observed in almost all patients during treatment of actinic keratosis with topical fluorouracil [see *Adverse Reactions* (6.2)], delayed type hypersensitivity should be suspected in the event of severe pruritus or eczema at the application site or at a distant site. Although the potential for a delayed hypersensitivity reaction to fluorouracil exists, patch testing to confirm hypersensitivity may be inconclusive.

Tolak Cream contains peanut oil. If signs of hypersensitivity occur, patients should discontinue Tolak Cream immediately and contact their healthcare provider.

5.3 Photosensitivity

Topical fluorouracil is associated with photosensitivity reactions including severe sunburn. Minimize exposure to ultraviolet rays including sunlight, sun lamps, and tanning beds during and immediately following treatment with Tolak Cream because the intensity of the photosensitivity reaction may be increased.

5.4 Embryofetal Toxicity

Cases of miscarriage and birth defects (including cleft lip and cleft palate) have been reported when pregnant women were exposed to a topical or parenteral fluorouracil product. In addition, ventricular septal defect and cases of miscarriage occurred when pregnant women applied a topical fluorouracil product to mucous membranes (Tolak Cream is not indicated for use on the mucous membrane). Furthermore, fluorouracil interferes with the synthesis of deoxyribonucleic acid (DNA), inhibits the formation of ribonucleic acid (RNA), and provokes unbalanced growth and death of cells. Therefore, Tolak Cream is contraindicated in pregnancy.

Advise females of reproductive potential to use effective contraception during Tolak use and for one month after the last dose of Tolak Cream.

5.5 Toxicity in Patients with Dihydropyrimidine Dehydrogenase Deficiency

Life-threatening systemic toxicity has been reported with the topical use of fluorouracil in a patient with DPD deficiency. Symptoms included severe abdominal pain, bloody diarrhea, vomiting, fever, and chills. Physical examination revealed stomatitis, erythematous skin rash, neutropenia, thrombocytopenia, inflammation of the esophagus, stomach and small bowel.

A large percentage of fluorouracil is catabolized by the DPD enzyme. DPD enzyme deficiency may result in increased availability of fluorouracil to the anabolic pathway, which may lead to increased interference with DNA and RNA synthesis and increased cytotoxic activity and potential toxicities [see *Clinical Pharmacology* (12.1)]. Therefore, Tolak Cream is contraindicated in patients with DPD deficiency.

Patients should discontinue Tolak Cream if symptoms of fluorouracil's systemic toxicity develop.

6 ADVERSE REACTIONS

The following serious adverse reactions are discussed in more detail in other sections of the labeling:

- Hypersensitivity Reactions [see *Warnings and Precautions* (5.2)]
- Photosensitivity [see *Warnings and Precautions* (5.3)]
- Embryofetal toxicity [see *Warnings and Precautions* (5.4)]
- Toxicity in Patients with Dihydropyrimidine Dehydrogenase Deficiency [see *Warnings and Precautions* (5.5)]

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 to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The data described below reflect exposure to Tolak Cream in 397 subjects with actinic keratosis in vehicle-controlled trials. The population ranged in age from 33 to 94 years, was 80% male, and almost all were Caucasian. Most subjects were treated with Tolak Cream once daily for 4 weeks. Throughout the 4-week treatment and the 4-week post-treatment periods, the trials specifically monitored for adverse reactions related to tolerability, including erythema, scaling/dryness, edema, crusting, erosions, stinging/burning, and pruritus.

The number and percentage of subjects with each of these monitored adverse reactions at one or more post-baseline visit(s) during the clinical trials are shown in Table 1.

Table 1: Incidence of Application Site Adverse Reactions Occurring with 4 Weeks of Tolak Cream Treatment in Clinical Trials 1 and 2

	Tolak Cream N=397 n (%)		Vehicle N=120 n (%)	
	Mild, Moderate or Severe	Severe Only	Mild, Moderate or Severe	Severe Only
Erythema	394 (99%)	174 (44%)	102 (85%)	0 (0%)
Scaling/ Dryness	377 (95%)	94 (24%)	99 (83%)	0 (0%)
Crusting	346 (87%)	87 (22%)	46 (38%)	0 (0%)
Pruritus	337 (85%)	65 (16%)	46 (38%)	1 (1%)
Stinging/ Burning	346 (87%)	101 (25%)	42 (35%)	0 (0%)
Edema	275 (69%)	30 (8%)	11 (9%)	0 (0%)
Erosions	271 (68%)	44 (11%)	14 (12%)	0 (0%)

In these clinical trials, the intensity of the adverse reactions in subjects using Tolak Cream generally increased over the 4-week treatment period, usually reaching maximal levels at 4 weeks of treatment and then diminishing to baseline levels within 4 weeks after cessation of treatment.

In Trials 1 and 2, 11% of Tolak Cream-treated and 3% of vehicle-treated subjects discontinued treatment because of adverse reactions. Of these subjects, the majority had adverse reactions at the application site.

6.2 Post-marketing Experience

The following adverse reactions have been identified during post-approval use of topical fluorouracil. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and Lymphatic System Disorders: leukocytosis, pancytopenia, thrombocytopenia, eosinophilia, neutrophil toxic granulation

Eye disorders: corneal disorder, conjunctival disorder, eye irritation, conjunctivitis, lacrimation

Gastrointestinal disorders: stomatitis

General Disorders and Administration Site Conditions: medicinal taste

Infections and Infestations: herpes simplex

Neoplasms: chronic lymphocytic leukemia, non-melanoma skin cancer

Nervous system disorders: insomnia, irritability

Psychiatric disorders: emotional distress

Skin and subcutaneous tissue disorders: blistering, allergic contact dermatitis, photosensitivity, crusting, pain, scarring, skin irritation, rash, ulceration, erythema,

burning, hyperpigmentation, alopecia, bullous pemphigoid, ichthyosis, scaling, suppuration, swelling, soreness, telangiectasia, tenderness, urticaria

7 DRUG INTERACTIONS

Subjects using systemic steroids, immunosuppressants, and immunomodulators were generally excluded from the clinical studies of Tolak Cream, as were subjects who used retinoids, topical steroids, glycolic acid products, alpha-hydroxy products, and chemical peeling products in the treatment areas. No clinical trials were designed to specifically evaluate drug interactions.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Teratogenic Effects: Pregnancy Category X [see *Contraindications* (4.1)]. Cases of miscarriage and birth defects (including cleft lip and cleft palate) have been reported when pregnant women were exposed to a topical or parenteral fluorouracil product. In addition, ventricular septal defect and cases of miscarriage occurred when pregnant women applied a topical fluorouracil product to mucous membranes (Tolak Cream is not indicated for use on the mucous membrane).

Animal reproduction studies have not been conducted with Tolak Cream. Fluorouracil administered parenterally has been shown to be teratogenic in mice, rats, and hamsters when given at doses equivalent to the usual human intravenous dose. However, the amount of fluorouracil absorbed systemically after topical administration to actinic keratosis is minimal [see *Clinical Pharmacology* (12.3)]. Fluorouracil exhibited maximum teratogenicity when given to mice as single intraperitoneal injections of 10 to 40 mg/kg on day 10 or 12 of gestation. Similarly, intraperitoneal doses of 12 to 37 mg/kg given to rats between days 9 and 12 of gestation and intramuscular doses of 3 to 9 mg/kg given to hamsters between days 8 and 11 of gestation were teratogenic and/or embryotoxic (i.e., resulted in increased resorptions or embryoletality). In monkeys, divided doses of 40 mg/kg given between days 20 and 24 of gestation were not teratogenic. However, doses higher than 40 mg/kg resulted in spontaneous abortions. Based on the recommended human dose and instructions for use, it is not possible to calculate human dose equivalents for animal exposures in these studies.

8.3 Nursing Mothers

Because many drugs are excreted in human milk and there is some systemic absorption of fluorouracil after topical administration, and because of the potential for serious adverse reactions in nursing infants, a decision should be made whether to discontinue nursing or to discontinue drug use, taking into account the importance of the drug to the mother.

8.4 Pediatric Use

Actinic keratosis is not usually observed in the pediatric population except in the case of rare genetic diseases. Tolak Cream is not intended for use in pediatric patients. Safety and effectiveness in children have not been established.

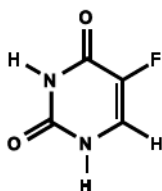
8.5 Geriatric Use

No dose adjustment is required for elderly patients [see *Clinical Studies* (14)]. The mean age of the 403 subjects treated with Tolak Cream in the clinical trials was 68 years. Of the Tolak Cream-treated subjects, 61% were 65 and over, while 28% were 75 and over.

No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

11 DESCRIPTION

Tolak (fluorouracil) Cream, 4% contains 40 mg of fluorouracil per gram of white cream for topical application. It is a nucleoside metabolic inhibitor. Chemically, fluorouracil is 5-fluoro-2,4 (1H,3H)-pyrimidinedione. The molecular formula of 5-fluorouracil is $C_4H_3FN_2O_2$, and its molecular weight is 130.1. Its structural formula is:



Tolak Cream contains the following inactive ingredients: arlacel-165, butylated hydroxytoluene, cetyl alcohol, anhydrous citric acid, glycerin, isopropyl myristate, methyl gluceth-10, methylparaben, propylparaben, purified water, peanut oil, sodium hydroxide, stearic acid, and stearyl alcohol. Tolak Cream formulation has an alkaline pH at 8.3 to 9.2.

(b) (4)

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12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

There is evidence that the metabolism of fluorouracil in the anabolic pathway blocks the methylation reaction of deoxyuridylic acid to thymidylic acid. In this manner,

fluorouracil interferes with the synthesis of DNA and to a lesser extent inhibits the formation of RNA. Since DNA and RNA are essential for cell division and growth, the effect of fluorouracil may be to create a thymine deficiency that provokes unbalanced growth and death of the cell. The effects of DNA and RNA deprivation are most marked on those cells that grow more rapidly and take up fluorouracil at a more rapid rate.

12.3 Pharmacokinetics

A systemic absorption study of topically applied Tolak Cream was performed in 21 patients with at least 3 actinic keratosis lesions (4 mm or greater in diameter). The steady state concentration of 5-fluorouracil in plasma was examined at 1, 2, 4, 6, 8, 10, 12, 16, and 24 hours after the last dose of a 4-week regimen in subjects with actinic keratosis after "area application" to area(s) in which actinic keratosis lesions were identified at baseline. Areas were defined as the whole region of the left cheek, right cheek, chin and forehead, bald scalp, and right and left ears, where actinic keratosis was identified at baseline. Thus, for example, if an actinic keratosis lesion was identified on the left cheek, Tolak was to be applied as a thin film to the whole area of the left cheek.

Eight patients had undetectable levels of plasma 5-fluorouracil (the lower limit of quantification was 1.00 ng/ml) in all plasma samples following treatment with Tolak Cream. Among patients with detectable plasma 5-fluorouracil levels, the highest level of plasma 5-fluorouracil was generally observed at 1 hour post-dose. The mean observed maximum concentration (\pm standard deviation) of plasma 5-fluorouracil was 3.66 (\pm 1.58) ng/mL with the range between 1.11 – 7.35 ng/mL.

The catabolism of 5-fluorouracil results in inactive degradation products (such as CO₂, urea, α -fluoro- β -alanine).

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Adequate long-term studies in animals to evaluate carcinogenic potential of fluorouracil have not been conducted. Studies with the active ingredient of Tolak, fluorouracil, have shown mutagenic effects in in vitro and in vivo tests and impairment of fertility in in vivo animal studies.

Fluorouracil was positive in three in vitro cell neoplastic transformation assays. In the C3H/10T $\frac{1}{2}$ clone 8 mouse embryo cell system, the resulting morphologically transformed cells formed tumors when inoculated into immunosuppressed syngeneic mice.

Although no evidence for mutagenic activity of fluorouracil was observed in 3 studies utilizing the Ames test, mutagenic activity was observed in the survival count rec-assay with *Bacillus subtilis* and in the *Drosophila* wing-hair spot test. Fluorouracil

produced petite mutations in *Saccharomyces cerevisiae* and demonstrated positive results in the micronucleus test using bone marrow cells of male mice.

Fluorouracil demonstrated clastogenic activity in vitro in Chinese hamster fibroblasts at concentrations of 1.0 and 2.0 µg/mL and was associated with chromatid gaps, breaks, and exchanges. In human lymphocytes, fluorouracil increased sister chromatid exchange in vitro. Additionally, an increase in numerical and structural chromosome aberrations have been observed in peripheral lymphocytes of patients treated with 5-fluorouracil.

In rats, chromosomal abnormalities and changes in chromosome organization in spermatogonia have been observed after intraperitoneal administration of 125 to 250 mg/kg of fluorouracil. Spermatogonial differentiation was also inhibited and resulted in transient infertility. Fluorouracil was inactive, however, at oral doses of 5 to 80 mg/kg/day in studies with a strain of mouse which is sensitive to the induction of sperm head abnormalities after exposure to a range of chemical mutagens and carcinogens. In female rats, fluorouracil administered intraperitoneally at doses of 25 and 50 mg/kg during the preovulatory phase of oogenesis resulted in a significant reduction in the incidence of fertile matings, a delay in the development of preimplantation and postimplantation embryos, an increased incidence of preimplantation lethality, and an induction of chromosomal anomalies in these embryos. In mice, single intravenous or intraperitoneal injections of fluorouracil were toxic to differentiated spermatogonia and spermatocytes (at 500 mg/kg) and produced abnormalities in spermatids (at 50 mg/kg).

14 CLINICAL STUDIES

The efficacy and safety of Tolak Cream was evaluated in two double-blind multi-center trials (Trial 1 and Trial 2) in subjects with at least 5 visible actinic keratosis lesions on the face, scalp, and/or ears. Subjects applied the assigned medication (Tolak Cream or vehicle placebo) to the face, and/or ears and/or scalp once or twice daily for four weeks as directed. Application of the medication involved field treatment of the whole area of the face and/or ears and/or scalp where actinic keratosis lesions were identified at baseline. Subjects receiving confounding treatments or medications were excluded. The effect of treatment was assessed at 4 weeks post-treatment. Subjects were almost all Caucasian, the mean age was approximately 68 years (range was from 33 to 89 years), and the mean number of actinic keratosis lesions was 14.4 in the Tolak group and 16.2 in the vehicle group in Trial 1, and 19.2 in the Tolak group and 23.2 in the vehicle group in Trial 2.

The number and percentage of subjects with 100% clearing of their actinic keratosis lesions and with at least 75% clearing of their actinic keratosis lesions are shown in Table 2.

Table 2 Subjects with 100% and at least 75% Clearing of Actinic Keratosis Lesions at 4 Weeks Post-Treatment

	Tolak Cream % (n/N)	Vehicle % (n/N)
Subjects with 100% Clearing of Actinic Keratosis Lesions		
Trial 1	54% (192/353)	4% (3/70)
Trial 2	24% (12/50)	4% (2/50)
Subjects with At Least 75% Clearing of Actinic Keratosis Lesions		
Trial 1	80% (284/353)	7% (5/70)
Trial 2	74% (37/50)	10% (5/50)

Examination of age (< 68 years versus ≥ 68 years) and gender subgroups did not identify differences in response to Tolak among these subgroups. There were too few non-Caucasian subjects to adequately assess differences in effects among racial subgroups.

After completing Trials 1 and 2, subjects who achieved 100% clearing of actinic keratosis lesions with Tolak Cream treatment were followed for 12 months for lesion recurrence. Table 3 presents the long term outcomes of these 204 subjects.

Table 3 Recurrence of Actinic Keratosis Lesions within 12 Months After Completing Trial 1 or 2

	Cleared Tolak Subjects N=204
Subjects remained clear 12 months after treatment	56 (27%)
Subjects with recurrence within 12 months*	110 (54%)
Subjects with no follow-up	38 (19%)

*Subjects who applied other treatments for actinic keratosis were counted as having recurrence.

16 HOW SUPPLIED / STORAGE AND HANDLING

16.1 How Supplied

Tolak (fluorouracil) Cream, 4% containing 40 mg of fluorouracil per gram of white cream is available in a 40 gram tube (NDC 28105-421-40).

16.2 Storage and Handling

Store at 25°C (77°F), with excursion permitted from 15°C to 30°C (59°F - 86°F) [See USP Controlled Room Temperature]. Do not freeze.

17 PATIENT COUNSELING INFORMATION

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

Important Administration Instructions

- Tolak Cream is for external use only.
- Do not apply to eyes, nose, mouth or mucous membranes.
- Advise patients to avoid inadvertent transfer of Tolak Cream to other body areas, or to another person.
- Keep out of the reach of children.
- Fluorouracil, including Tolak may be fatal if ingested by pets. Avoid allowing pets to contact the Tolak container or the skin where Tolak has been applied. Store Tolak out of reach of pets. Safety discard or clean any cloth or applicator that may retain Tolak and avoid leaving any residues of Tolak on your hands, clothing, carpeting or furniture.

Instruct patients to do the following:

- Apply after washing, rinsing, and drying the treatment area.
- Wash hands thoroughly after application.

Hypersensitivity Reactions

- Inform patients that Tolak Cream contains peanut oil and that hypersensitivity reactions may occur with its use.
- Inform patients to discontinue Tolak Cream immediately and seek medical attention if signs of severe hypersensitivity occur [see *Warnings and Precautions* (5.2)].

Increased Sensitivity to UV Light

- Inform patients that topical fluorouracil is associated with photosensitivity reactions including severe sunburn.
- Advise patients to minimize exposure to sun, sun lamps, and tanning beds while using Tolak Cream.
- Advise patients that sunscreens may be applied after Tolak Cream application [see *Warnings and Precautions* (5.3)].

Embryofetal Toxicity

- Inform females of reproductive potential of the potential risk to a fetus.
- Advise females of reproductive potential to use effective contraception for one month after the last dose of Tolak Cream and to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions* (5.4)].

Systemic Toxicity in Patients with DPD deficiency

- Advise patient to stop using Tolak immediately and contact physician if abdominal (stomach) pain, bloody diarrhea, vomiting, fever, and/or chills occur with Tolak use.
- Inform patient that these symptoms could be manifestations of a deficiency in the enzyme dihydropyrimidine dehydrogenase (DPD) [see *Warnings and Precautions* (5.5)].

Manufactured and Distributed by:
Hill Dermaceuticals, Inc.
Sanford, Florida 32773

<p style="text-align: center;">PATIENT INFORMATION Tolak (tol lak) (fluorouracil) Cream, 4%</p>
<p>Important: Tolak Cream is for use on skin only (topical). Do not get or apply Tolak Cream on your eyelids or in your eyes, nose, mouth, or in the vagina.</p>
<p>What is Tolak Cream? Tolak Cream is a prescription medicine used to treat skin lesions called actinic keratosis on the face, ears, or scalp. It is not known if Tolak Cream is safe and effective for use on other areas of the body or to treat problems other than actinic keratosis. It is not known if Tolak Cream is safe and effective in children.</p>
<p>Who should not use Tolak Cream? Do not use Tolak Cream if:</p> <ul style="list-style-type: none">• you are pregnant or may become pregnant. Tolak Cream may harm your unborn child. Stop using Tolak Cream and tell your doctor right away if you become pregnant while using Tolak Cream.• your body does not make enough of (you are deficient in) the enzyme called dihydropyrimidine dehydrogenase (DPD). If you do not have enough of this enzyme, you may get serious side effects if you use Tolak Cream. Symptoms of serious side effects include: stomach-area abdominal pain, bloody diarrhea, vomiting, fever, and chills.
<p>What should I tell my doctor before using Tolak Cream? Before using Tolak Cream, tell your doctor about all your medical conditions, including if you:</p> <ul style="list-style-type: none">• are allergic to any of the ingredients in Tolak Cream. Tolak Cream contains peanut oil. See the end of this leaflet for a list of all of the ingredients in Tolak Cream.• are pregnant or plan to become pregnant. See “Who should not use Tolak Cream?”<ul style="list-style-type: none">o Females who are able to become pregnant should use an effective method of birth control during treatment with Tolak Cream and for one month after the last dose of Tolak Cream. Talk to your doctor about birth control methods that may be right for you during treatment with Tolak Cream.• are breastfeeding or plan to breastfeed. It is not known if Tolak Cream passes into your breast milk. You and your doctor should decide if you will use Tolak Cream or breastfeed.
<p>How should I use Tolak Cream?</p> <ul style="list-style-type: none">• Use Tolak Cream exactly as prescribed by your doctor.• Apply Tolak Cream 1 time each day, to the areas of your skin to be treated, for 4 weeks. Apply Tolak Cream as follows:<ul style="list-style-type: none">o Gently wash, rinse, and pat dry the skin areas to be treated.o Apply a thin film of the Tolak Cream to the areas to be treated.o Gently massage Tolak Cream evenly into your skin.o Avoid contact with other areas of your body, and transfer of Tolak Cream from your body to other people.o Wash your hands after you apply Tolak Cream.
<p>What should I avoid while using Tolak Cream?</p> <ul style="list-style-type: none">• Do not cover the treated areas with an airtight dressing.• Avoid sunlight. Tolak Cream can make your skin sensitive to the sun. You could get severe sunburn. Limit your time in the sun during treatment with Tolak Cream. Talk to your doctor if you get sunburn.• Do not breast feed or become pregnant while using Tolak. If you do become pregnant, stop using Tolak and tell your doctor right away.• Tolak may be fatal to your pet if your pet licks or ingests Tolak.<ul style="list-style-type: none">• Avoid allowing pets to contact the Tolak container or your skin where you applied Tolak.• Store Tolak out of reach of pets.• Safely discard or clean any cloth or applicator that may have Tolak residue.• Avoid applying Tolak on your clothing, carpeting, or furniture.• If your pet starts vomiting or starts having a seizure after your pet licks or ingests Tolak, seek immediate veterinary care for your pet.

<p>What are the possible side effects of Tolak Cream? Tolak Cream can cause serious side effects:</p> <ul style="list-style-type: none">• Tolak Cream™ can cause serious side effects in people who do not have enough of the enzyme dihydropyrimidine dehydrogenase (DPD). See “Who should not use Tolak Cream” and “What should I tell my doctor before using Tolak Cream.” Stop using Tolak Cream and call your doctor right away if you get any of the following symptoms during treatment with Tolak Cream:<ul style="list-style-type: none">o stomach-area (abdominal) paino vomitingo chillso bloody diarrheao fever• Skin reactions including possible allergic reactions. Most people using Tolak Cream get skin reactions in the treated areas. You may get skin reactions such as:<ul style="list-style-type: none">o rednesso stinging or burningo dryness or scalingo swellingo crustingo skin loss (erosion)o itching <p>Tell your doctor if you get any of these skin reactions and they are severe or do not go away. These are not all the possible side effects of Tolak Cream. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.</p> <p>How should I store Tolak Cream? Store Tolak Cream between 68°F to 77°F (20°C to 25°C). Do not freeze Tolak Cream. Do not use Tolak Cream after the expiration date printed on the tube. Keep Tolak Cream and all medicines out of the reach of children.</p> <p>General information about the safe and effective use of Tolak Cream Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use Tolak Cream for a condition for which it was not prescribed. Do not give Tolak Cream to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or doctor for information about Tolak Cream that is written for health professionals.</p> <p>What are the ingredients in Tolak Cream? Active ingredient: fluorouracil Inactive ingredients: arlacel-165, butylated hydroxytoluene, cetyl alcohol, anhydrous citric acid, glycerin, isopropyl myristate, methyl gluceth-10, methylparaben, propylparaben, purified water, peanut oil, sodium hydroxide, stearic acid, and stearyl alcohol.</p> <p>Manufactured and Distributed by: Hill Dermaceuticals, Inc. Sanford, Florida 32773 For more information, go to www.hillderm.com or call 1-800-344-5707.</p>

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

Issued: August 2022

**This label may not be the latest approved by FDA.
For current labeling information, please visit <https://www.fda.gov/drugsatfda>**

NDC 28105-421-40

Tolak[®]
(fluorouracil) Cream 4%

Contains Peanut Oil

40 g

Topical Cream

Rx only

For Topical Use Only

Not for Ophthalmic, Oral or Intravaginal Use

Hill Dermaceuticals, Inc.[®]

For External Use Only. Keep out of Reach of Children. May be fatal if your pet licks or ingests. Avoid allowing pets to contact this tube or your skin where Tolak has been applied. Store and dispose out of the reach of pets.

Usual Dosage: Apply a thin film to the lesions using the fingertips, once daily. Wash hands after each application.

See Package Insert for full prescribing information.

Active ingredient: fluorouracil. Inactive ingredients: arlacel-165, butylated hydroxytoluene, cetyl alcohol, anhydrous citric acid, glycerin, isopropyl myristate, methyl gluceth-10, methylparaben, propylparaben, purified water, peanut oil, sodium hydroxide, stearic acid, and stearyl alcohol.

Do not freeze. Maintain at 25°C (77°F); excursion permitted to 15° - 30°C (59°F - 86°F) during storage and transportation.

Lot No. and Exp Date on crimp.

Manufactured and Distributed by: Hill Dermaceuticals, Inc.[®]

Sanford, FL 32773, USA

Reference ID: 5012429
Code: 171A245-4



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GTIN : 00328105421408

EXP:
LOT:
SN:

171A246-5

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NO COATING
AREA



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This is a representation of an electronic record that was signed electronically. Following this are manifestations of any and all electronic signatures for this electronic record.

/s/

TATIANA OUSSOVA
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