

**VANIQA- eflornithine hydrochloride cream**  
**Allergan, Inc.**

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**VANIQA<sup>®</sup>**

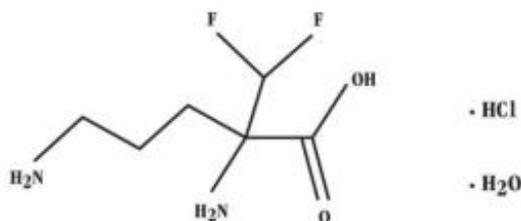
**(eflornithine hydrochloride) cream, 13.9%**

**For topical dermatological use only. Not for ophthalmic, oral, or intravaginal use.**

**DESCRIPTION**

**VANIQA<sup>®</sup>** is a cream containing 13.9% (139 mg/g) of anhydrous eflornithine hydrochloride as eflornithine hydrochloride monohydrate (150 mg/g).

Chemically, eflornithine hydrochloride is (±) -2-(difluoromethyl) ornithine monohydrochloride monohydrate, with the empirical formula  $C_6H_{12}F_2N_2O_2 \cdot HCl \cdot H_2O$ , a molecular weight of 236.65 and the following structural formula:



Anhydrous eflornithine hydrochloride has an empirical formula  $C_6H_{12}F_2N_2O_2 \cdot HCl$  and a molecular weight of 218.65.

Other ingredients include: cetareth-20; cetaryl alcohol; dimethicone; glyceryl stearate; methylparaben; mineral oil; PEG-100 stearate; phenoxyethanol; propylparaben; stearyl alcohol; and water.

**CLINICAL PHARMACOLOGY**

**Pharmacodynamics**

There are no studies examining the inhibition of the enzyme ornithine decarboxylase (ODC) in human skin following the application of topical eflornithine. However, there are studies in the literature that report the inhibition of ODC activity in skin following oral eflornithine. It is postulated that topical eflornithine hydrochloride irreversibly inhibits skin ODC activity. This enzyme is necessary in the synthesis of polyamines. Animal data indicate that inhibition of ornithine decarboxylase inhibits cell division and synthetic functions, which affect the rate of hair growth. **VANIQA<sup>®</sup>** (eflornithine hydrochloride) cream, 13.9% has been shown to retard the rate of hair growth in non-clinical and clinical studies.

**Pharmacokinetics**

The mean percutaneous absorption of eflornithine in women with unwanted facial hair, from a 13.9% w/w cream formulation, is less than 1% of the radioactive dose, following either single or multiple doses under conditions of clinical use, that included shaving within 2 hours before radiolabeled dose application in addition to other forms of cutting or plucking, and tweezing to remove facial hair. Steady state was reached within four days of twice-daily application. The apparent steady-state plasma  $t_{1/2}$  of eflornithine was approximately 8 hours. Following twice-daily application of 0.5 g of the cream (total

dose 1 g/day; 139 mg as anhydrous eflornithine hydrochloride), under conditions of clinical use in women with unwanted facial hair (n=10), the steady-state C<sub>max</sub>, C<sub>trough</sub> and AUC<sub>12hr</sub> were approximately 10 ng/mL, 5 ng/mL, and 92 ng•hr/mL, respectively, expressed in terms of the anhydrous free base of eflornithine hydrochloride. At steady state, the dose-normalized peak concentrations (C<sub>max</sub>) and the extent of daily systemic exposure (AUC) of eflornithine following twice-daily application of 0.5 g of the cream (total dose 1 g/day) is estimated to be approximately 100- and 60-fold lower, when compared to 370 mg/day once-daily oral doses. This compound is not known to be metabolized and is primarily excreted unchanged in the urine.

## INDICATIONS AND USAGE

**VANIQA**<sup>®</sup> (eflornithine hydrochloride) cream, 13.9% is indicated for the reduction of unwanted facial hair in women.

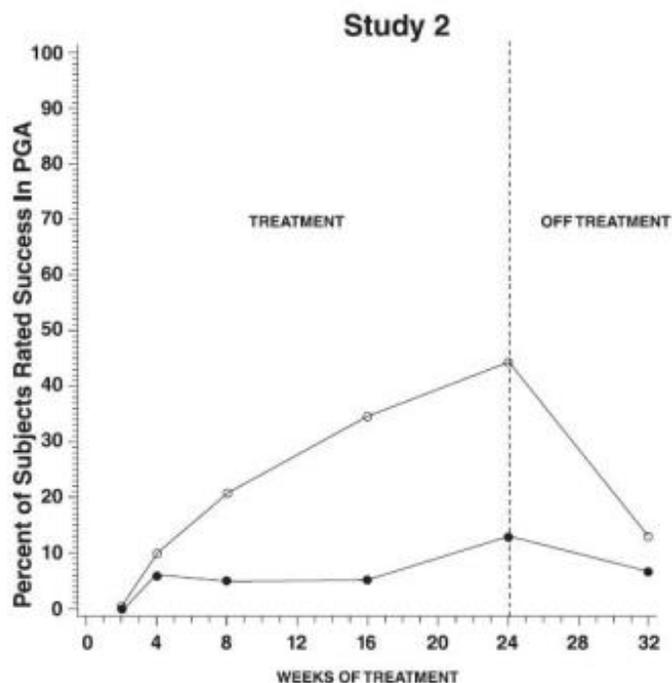
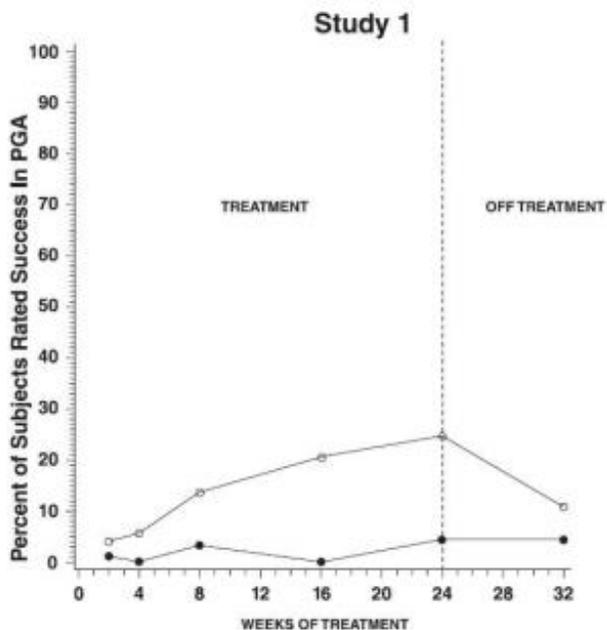
**VANIQA**<sup>®</sup> has only been studied on the face and adjacent involved areas under the chin of affected individuals. Usage should be limited to these areas of involvement.

## CLINICAL TRIALS

Results of topical dermal studies for contact sensitization, photocontact sensitization, and photocontact irritation reveal that under conditions of clinical use, **VANIQA**<sup>®</sup> is not expected to cause contact sensitization, phototoxic, or photosensitization reactions. Results of the topical dermal study for contact irritation did reveal that **VANIQA**<sup>®</sup> could cause irritation reactions in clinical use in susceptible individuals or under conditions of exaggerated use.

Two randomized double-blind studies involving 594 female patients (393 treated with **VANIQA**<sup>®</sup>, 201 with vehicle) treated twice daily for up to 24 weeks evaluated the efficacy of **VANIQA**<sup>®</sup> in the reduction of unwanted facial hair in women. Women in the trial had a customary frequency of removal of facial hair two or more times per week. Women with facial conditions such as severe inflammatory acne, women who were pregnant, and nursing mothers were excluded from the studies. Physicians assessed the improvement or worsening from the baseline condition (Physician's Global Assessment [PGA]), 48 hours after shaving, of all treated areas. Statistically significant improvement for **VANIQA**<sup>®</sup> (eflornithine hydrochloride) cream, 13.9% versus vehicle was seen in each of these studies for "marked improvement" or greater response (24-week time point; p≤ 0.001). Marked improvement was seen consistently at 8 weeks after initiation of treatment and continued throughout the 24 weeks of treatment. Hair growth approached pretreatment levels within 8 weeks of treatment withdrawal. The success rate over time is graphically presented below for each pivotal trial.

**Physician's Global Assessment  
Success Defined as Marked or Better Improvement**



Approximately 32% of patients showed marked improvement or greater (protocol definition of clinical success) after 24 weeks of treatment with VANIQA<sup>®</sup> (eflornithine hydrochloride) cream, 13.9%, compared to 8% with the vehicle. Combined results of these two trials through 24 weeks are presented below.

PGA Outcome	VANIQA <sup>®</sup>	Vehicle
Clear/almost clear	5%	0%
Marked improvement	27%	8%

Improved	26%	26%
No improvement/worse/missing	42%	66%

Subgroup analyses appeared to suggest greater benefit for Whites than non-Whites (37% versus 22% success, respectively;  $p=0.017$ ). However, non-Whites, mostly Black subjects, did have significant treatment benefit with 22% graded as success on VANIQA<sup>®</sup> compared to 5% on vehicle.

About 12% of women in the clinical trials were postmenopausal. Significant improvement in PGA outcome versus vehicle was seen in postmenopausal women (38% compared to 0%,  $p \leq 0.001$ ).

VANIQA<sup>®</sup> statistically significantly reduced how bothered patients felt by their facial hair and by the time spent removing, treating, or concealing facial hair. These patient-observable differences were seen as early as 8 weeks after initiating treatment. Hair growth approached pretreatment levels within 8 weeks of treatment withdrawal.

Clinical trials with VANIQA<sup>®</sup> involved over 1370 women with unwanted facial hair of skin types I-VI, of whom 68% were White, 17% Black, 11% Hispanic-Latino, 2% Asian-Pacific Islander, 0.6% American Native, and 1.3% other.

## CONTRAINDICATIONS

VANIQA<sup>®</sup> is contraindicated in patients with a history of sensitivity to any components of the preparation.

## WARNINGS

Discontinue use if hypersensitivity occurs.

## PRECAUTIONS

### General

#### For external use only.

Transient stinging or burning may occur when applied to abraded or broken skin.

### Information for Patients

Patients using VANIQA<sup>®</sup> should receive the following information and instructions:

1. This medication is not a depilatory, but rather appears to retard hair growth to improve the condition and the patient's appearance. Patients will likely need to continue using a hair removal method (e.g., shaving, plucking, etc.) in conjunction with VANIQA<sup>®</sup> (eflornithine hydrochloride) cream, 13.9%.
2. Onset of improvement was seen after as little as 4-8 weeks of treatment in the 24-week clinical trials. The condition may return to pretreatment levels 8 weeks after discontinuing treatment.
3. If skin irritation or intolerance develops, direct the patient to temporarily reduce the frequency of application (e.g., once a day). If irritation continues, the patient should discontinue use of the product.

Refer to the Patient Information Leaflet for additional important information and instructions.

## DRUG INTERACTIONS

It is not known if VANIQA<sup>®</sup> has any interaction with other topically applied drug products.

## Carcinogenesis, Mutagenesis and Impairment of Fertility

In a 12-month photocarcinogenicity study in hairless albino mice, animals treated with the vehicle alone showed an increased incidence of skin tumors induced by exposure to ultraviolet (UVA/UVB) light, whereas mice treated topically with **VANIQA**<sup>®</sup> at doses up to 600 mg/kg [19X the Maximum Recommended Human Dose (MRHD) based on body surface area (BSA)] showed an incidence of skin tumors equivalent to untreated-control animals.

A 2-year dermal carcinogenicity study in CD-1 mice treated with **VANIQA**<sup>®</sup> revealed no evidence of carcinogenicity at daily doses up to 600 mg/kg (950X the MRHD based on AUC comparisons).

Eflornithine did not elicit mutagenic effects in an Ames reverse-mutation assay or clastogenicity in primary human lymphocytes, with and without metabolic activation. In a dermal micronucleus assay, eflornithine hydrochloride cream, 13.9%, at doses up to 900 mg/kg (58X the MRHD based on BSA) in rats yielded no evidence of genotoxicity.

In a dermal fertility and early embryonic development study in rats treated with **VANIQA**<sup>®</sup>, there were no adverse reproductive effects at doses up to 450 mg/kg (29X the MRHD based on BSA). In a peri- and postnatal study in rats, eflornithine administered in the drinking water was associated with maternal toxicity and reduced pup weights at doses of at least 625 mg/kg (40X the MRHD based on BSA) and a slightly reduced fertility index, which was considered to be of questionable biological significance, at 1698 mg/kg (110X the MRHD based on BSA). No effects were seen with an oral dose of 223 mg/kg (14X the MRHD based on BSA). In the latter study, the multiples of the human exposure are likely much higher, since eflornithine is well absorbed orally in rats, whereas minimal absorption occurs in humans treated topically.

## **Pregnancy**

### **Teratogenic Effects**

In the first dermal embryo-fetal development study in rats treated with eflornithine hydrochloride cream, 13.9% (in which no precautions were taken to prevent ingestion of drug from application sites), maternal toxicity and fetal effects including reduced numbers of live fetuses, decreased fetal weights, and delayed ossification and development of the viscera were observed at doses of 225 and 450 mg/kg (15X and 29X the MRHD based on BSA, respectively). When the study was repeated under conditions that avoided ingestion from application sites, no maternal, fetal or teratogenic effects were observed at doses up to 450 mg/kg (29X the MRHD based on BSA). In the first study in which no precautions were taken to prevent ingestion, circulating plasma levels were 11- to 14-fold higher than in the second study in which ingestion was prevented. In a dermal embryo-fetal development study in rabbits treated with **VANIQA**<sup>®</sup> (eflornithine hydrochloride) cream, 13.9% no adverse maternal or fetal effects occurred at doses up to 90 mg/kg (11X the MRHD based on BSA). Significant dermal irritation, as well as possible ingestion of **VANIQA**<sup>®</sup> occurred at 300 mg/kg/day (36X the MRHD based on BSA) and was associated with maternal deaths, abortions, increased fetal resorptions, and reduced fetal weights. Fetotoxicity in the absence of maternal toxicity has been reported in oral studies with eflornithine with fetal no-effect doses of 80 mg/kg in rats and 45 mg/kg in rabbits. In these studies, no evidence of teratogenicity was observed in rats given up to 200 mg/kg or in rabbits given up to 135 mg/kg.

Although **VANIQA**<sup>®</sup> was not formally studied in pregnant patients, 22 pregnancies occurred during the trials. Nineteen of these pregnancies occurred while patients were using **VANIQA**<sup>®</sup>. Of the 19 pregnancies, there were 9 healthy infants, 4 spontaneous abortions, 5 induced/elective abortions, and 1 birth defect (Down's Syndrome to a 35-year-old). Because there are no adequate and well-controlled studies in pregnant women, the risk/benefit ratio of using **VANIQA**<sup>®</sup> in women with unwanted facial hair who are pregnant should be weighed carefully with serious consideration for either not implementing or discontinuing use of **VANIQA**<sup>®</sup>.

### **Nursing Mothers**

It is not known whether or not eflornithine hydrochloride is excreted in human milk. Caution should be exercised when **VANIQA**<sup>®</sup> is administered to a nursing woman.

## Pediatric Use

The safety and effectiveness of this product have not been established in pediatric patients less than 12 years of age.

## Geriatric Use

Of the 1373 patients on active treatment in clinical studies of **VANIQA**<sup>®</sup>, approximately 7% were 65 years or older and approximately 1% were 75 or older. No apparent differences in safety were observed between older patients and younger patients.

## ADVERSE REACTIONS

Adverse events reported for most body systems occurred at similar frequencies in **VANIQA**<sup>®</sup> (eflornithine hydrochloride) cream, 13.9% and vehicle control groups. The most frequent adverse events related to treatment with **VANIQA**<sup>®</sup> were skin-related. The following table notes the percentage of adverse events associated with the use of **VANIQA**<sup>®</sup> or its vehicle that occurred at greater than 1% in both the vehicle-controlled studies and the open-label safety studies up to 1 year of continuous use.

Adverse Event Term	Vehicle-Controlled Studies		Vehicle-Controlled and Open-Label Studies
	<b>VANIQA</b> <sup>®</sup> (n=393)	Vehicle (n=201)	<b>VANIQA</b> <sup>®</sup> (n=1373)
Acne	21.3	21.4	10.8
Pseudofolliculitis Barbae	16.3	15.4	4.9
Stinging Skin	7.9	2.5	4.1
Headache	3.8	5.0	4.0
Burning Skin	4.3	2.0	3.5
Dry Skin	1.8	3.0	3.3
Pruritus (itching)	3.8	4.0	3.1
Erythema (redness)	1.3	0.0	2.5
Tingling Skin	3.6	1.5	2.2
Dyspepsia	2.5	2.0	1.9
Skin Irritation	1.0	1.0	1.8
Rash	2.8	0.0	1.5
Alopecia	1.5	2.5	1.3
Dizziness	1.5	1.5	1.3
Folliculitis	0.5	0.0	1.0
Hair Ingrown	0.3	2.0	0.9
Facial Edema	0.3	3.0	0.7
Anorexia	1.0	2.0	0.7
Nausea	0.5	1.0	0.7
Asthenia	0.0	1.0	0.3
Vertigo	0.3	1.0	0.1

Treatment-related skin adverse events that occurred in less than 1% of the subjects treated with **VANIQA**<sup>®</sup> are: bleeding skin, cheilitis, contact dermatitis, swelling of lips, herpes simplex, numbness, and rosacea.

Adverse events were primarily mild in intensity and generally resolved without medical treatment or discontinuation of **VANIQA**<sup>®</sup>. Only 2% of subjects discontinued studies due to an adverse event related to use of **VANIQA**<sup>®</sup>.

### **Laboratory Test Abnormalities**

No laboratory test abnormalities have been consistently found to be associated with **VANIQA**<sup>®</sup>. In an open-label study, some patients showed an increase in their transaminases; however, the clinical significance of these findings is not known.

### **OVERDOSAGE**

Overdosage information with **VANIQA**<sup>®</sup> is unavailable. Given the low percutaneous penetration of this drug, overdosage via the topical route is not expected (see **CLINICAL PHARMACOLOGY**). However, should very high topical doses (e.g., multiple tubes per day) or oral ingestion be encountered (a 30 g tube contains 4.2 g of eflornithine hydrochloride), the patient should be monitored, and appropriate supportive measures administered as necessary.

(Note: Use of an intravenous formulation of eflornithine hydrochloride at high doses (400 mg/kg/day or approximately 24 g/day) for the treatment of *Trypanosoma brucei gambiense* infection (African sleeping sickness) has been associated with adverse events and laboratory abnormalities. Adverse events in this setting have included hair loss, facial swelling, seizures, hearing impairment, stomach upset, loss of appetite, headache, weakness and dizziness. A variety of hematological toxicities, including anemia, thrombocytopenia and leukopenia have also been observed, but these were usually reversible upon discontinuation of treatment.)

### **DOSAGE AND ADMINISTRATION**

Apply a thin layer of **VANIQA**<sup>®</sup> (eflornithine hydrochloride) cream, 13.9% to affected areas of the face and adjacent involved areas under the chin and rub in thoroughly. Do not wash treated area for at least 4 hours. Use twice daily at least 8 hours apart or as directed by a physician. The patient should continue to use hair removal techniques as needed in conjunction with **VANIQA**<sup>®</sup>. (**VANIQA**<sup>®</sup> should be applied at least 5 minutes after hair removal.) Cosmetics or sunscreens may be applied over treated areas after cream has dried.

### **HOW SUPPLIED**

**VANIQA**<sup>®</sup> (eflornithine hydrochloride) cream, 13.9% is available as:

45 gram tube  
NDC 0023-4857-45

**Storage:** Store at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [See USP Controlled Room Temperature]. Do not freeze. See tube crimp and carton end for expiration date and lot number.

**Revised: 1/2018**

**Rx only**

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Madison, NJ 07940

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## Patient Information Leaflet for

### **VANIQA<sup>®</sup>** **(eflornithine hydrochloride) cream, 13.9%**

#### **INFORMATION FOR PATIENTS**

This section contains important information about **VANIQA<sup>®</sup>** that you should read before you begin treatment. This section does not list all the benefits and risks of **VANIQA<sup>®</sup>** and does not take the place of discussions with your doctor or healthcare professional about your condition or your treatment. If you have questions, talk with your healthcare professional. The medicine described here can only be prescribed by a licensed healthcare professional. Only your healthcare professional can determine if **VANIQA<sup>®</sup>** is right for you.

#### **What is VANIQA<sup>®</sup>?**

**VANIQA<sup>®</sup>** (pronounced "VAN-i-ka") is a prescription medication applied to the skin for the reduction of unwanted facial hair in women.

The active ingredient in **VANIQA<sup>®</sup>** is eflornithine hydrochloride. **VANIQA<sup>®</sup>** also contains cetareth-20, cetaryl alcohol, dimethicone, glyceryl stearate, methylparaben, mineral oil, PEG-100 stearate, phenoxyethanol, propylparaben, stearyl alcohol and water.

#### **How does VANIQA<sup>®</sup> work?**

**VANIQA<sup>®</sup>** interferes with an enzyme found in the hair follicle of the skin needed for hair growth. This results in slower hair growth and improved appearance where **VANIQA<sup>®</sup>** is applied.

**VANIQA<sup>®</sup>** does not permanently remove hair or "cure" unwanted facial hair. It is not a depilatory. Your treatment program should include continuation of any hair removal technique you are currently using.

**VANIQA<sup>®</sup>** will help you manage your condition and improve your appearance.

Improvement in the condition occurs gradually. Don't be discouraged if you see no immediate improvement. Be patient. Improvement may be seen as early as 4 to 8 weeks of treatment. Improvement may take longer in some individuals. If no improvement is seen after 6 months of use, discontinue use. Clinical studies show that in about 8 weeks after stopping treatment with **VANIQA<sup>®</sup>**, the hair will return to the same condition as before beginning treatment.

#### **Who should not use VANIQA<sup>®</sup>?**

You should not use **VANIQA<sup>®</sup>** if you are allergic to any of the ingredients in the cream. All ingredients are listed on the tube and at the beginning of this leaflet.

You should not use **VANIQA<sup>®</sup>** if you are less than 12 years of age.

#### **What should you tell your doctor before using VANIQA<sup>®</sup>?**

If you are allergic to any of the ingredients, tell your doctor.

If you are pregnant or plan to become pregnant, discuss with your doctor whether you should use **VANIQA<sup>®</sup>** during pregnancy. No clinical studies have been performed in pregnant women.

If you are breastfeeding, consult your doctor before using **VANIQA**<sup>®</sup>. It is not known if **VANIQA**<sup>®</sup> is passed to infants through breast milk.

If you are taking any prescription medicines, non-prescription medicines or using any facial or skin creams, check with your physician before use of **VANIQA**<sup>®</sup>.

**How should I use VANIQA<sup>®</sup>?**

Use **VANIQA**<sup>®</sup> only for the condition for which it was prescribed by your doctor. Do not give it to other people or allow other people to use it.

You will need to continue your normal procedures for hair removal until desired results have been achieved. You may then be less bothered by the time spent in removing hair or the frequency of hair removal. **VANIQA**<sup>®</sup> is to be used twice daily, at least eight hours apart, or as directed by your doctor. **VANIQA**<sup>®</sup> is for external use only.

Follow the instructions for application of **VANIQA**<sup>®</sup> carefully. Apply a thin layer of **VANIQA**<sup>®</sup> to the affected areas of the face and adjacent involved areas under the chin and rub in thoroughly. You should not wash the treatment areas for at least 4 hours after application of **VANIQA**<sup>®</sup>. Wash your hands after each application.

**VANIQA**<sup>®</sup> may cause temporary redness, rash, burning, stinging or tingling, especially when the skin is damaged. If irritation continues, stop use of **VANIQA**<sup>®</sup> and contact your doctor. Avoid getting the medication in your eyes or inside your nose or mouth. If the product gets in your eyes, rinse thoroughly with water and contact your doctor.

If you forget or miss a dose of **VANIQA**<sup>®</sup>, do not try to “make it up”. Return to your normal application schedule as soon as you can.

You may use your normal cosmetics or sunscreen after applying **VANIQA**<sup>®</sup>, but you should wait a few minutes to allow the treatment to be absorbed before applying them.

If your condition gets worse with treatment, stop use of **VANIQA**<sup>®</sup> and contact your doctor.

**What are the possible side effects of VANIQA<sup>®</sup>?**

**VANIQA**<sup>®</sup> may cause temporary redness, stinging, burning, tingling or rash on areas of the skin where it is applied. Folliculitis (hair bumps) may also occur. If these persist, consult your doctor.

**How should VANIQA<sup>®</sup> be stored?**

**VANIQA**<sup>®</sup> should be stored at 15°-30°C (59°-86°F). Do not freeze.

Keep this and all medicines out of the reach of children.

This medicine was prescribed for your particular condition. Do not use it for another condition or give it to anyone else.

This summary does not include everything there is to know about **VANIQA**<sup>®</sup>. If you have questions or concerns, or want more information about **VANIQA**<sup>®</sup>, your doctor or pharmacist has the complete prescribing information upon which this leaflet is based. You may want to read it and discuss it with your doctor or healthcare professional. Remember, no written summary can replace careful discussion with your doctor.

**Rx only**

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Madison, NJ 07940

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**PRINCIPAL DISPLAY PANEL**

NDC 0023-4857-45

VANIQA

(eflornithine hydrochloride)

cream, 13.9%

For Topical Use Only

Rx Only

Net wt. 1.59 oz (45 g)



## VANIQA

eflornithine hydrochloride cream

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:0023-4857
<b>Route of Administration</b>	TOPICAL		

**Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
EFLOORNITHINE HYDROCHLORIDE (UNII: 4NH22NDW9H) (EFLOORNITHINE - UNII:ZQN1G5V6SR)	EFLOORNITHINE HYDROCHLORIDE ANHYDROUS	139 mg in 1 g

### Inactive Ingredients

Ingredient Name	Strength
POLYOXYL 20 CETOSTEARYL ETHER (UNII: YRC528SWUY)	
CETOSTEARYL ALCOHOL (UNII: 2DMT128M1S)	
DIMETHICONE (UNII: 92RU3N3Y1O)	
GLYCERYL MONOSTEARATE (UNII: 230OU9XXE4)	
METHYL PARABEN (UNII: A2I8C7HI9T)	
MINERAL OIL (UNII: T5L8T28FGP)	
POLYOXYL 100 STEARATE (UNII: YD01N1999R)	
PHENOXYETHANOL (UNII: HIE492ZZ3T)	
PROPYL PARABEN (UNII: Z8IX2SC1OH)	
STEARYL ALCOHOL (UNII: 2KR89I4HIY)	
WATER (UNII: 059QF0KO0R)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0023-4857-45	1 in 1 CARTON	06/01/2013	
1		45 g in 1 TUBE; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA021145	06/01/2013	

**Labeler** - Allergan, Inc. (144796497)

### Establishment

Name	Address	ID/FEI	Business Operations
Contract Pharmaceuticals Limited Canada		248761249	MANUFACTURE(0023-4857, 0023-4857)

Revised: 1/2018

Allergan, Inc.