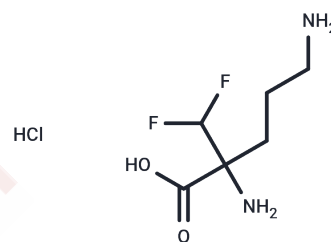


Eflornithine hydrochloride

Chemical Properties

CAS No. :	68278-23-9
Formula:	C ₆ H ₁₃ ClF ₂ N ₂ O ₂
Molecular Weight:	218.63
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Eflornithine hydrochloride, a specific and irreversible inhibitor of ornithine decarboxylase enzyme, is a medication used for the treatment of African trypanosomiasis and excessive facial hair growth in women.
Targets(IC50)	Others,Parasite
In vivo	Eflornithine stands as the sole novel molecule registered in the past 50 years for treating human African trypanosomiasis, primarily serving as an alternative for cases resistant to melarsoprol involving Trypanosoma brucei gambiense[1]. Additionally, a 15% eflornithine cream has proven more effective than a placebo in reducing unwanted facial hair growth, showing significant improvement in 58% of users versus 34% of placebo recipients after six months[2]. When applied to microneedle-prepared skin in mice, eflornithine's hair growth inhibition is notably increased[3]. Furthermore, eflornithine treatment in hypertensive rats with coarctation has been shown to normalize responses to KCl, norepinephrine, and acetylcholine, illustrating a potential in restoring vascular function within 14 days[4].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5739 mL	22.8697 mL	45.7394 mL
5 mM	0.9148 mL	4.5739 mL	9.1479 mL
10 mM	0.4574 mL	2.287 mL	4.5739 mL
50 mM	0.0915 mL	0.4574 mL	0.9148 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Burri C, et al. Eflornithine for the treatment of human African trypanosomiasis. *Parasitol Res.* 2003 Jun;90 Supp 1: S49-52.
- Balfour JA, et al. Topical eflornithine. *Am J Clin Dermatol.* 2001;2(3):197-201; discussion 202.
- Kumar A, et al. A method to improve the efficacy of topical eflornithine hydrochloride cream. *Drug Deliv.* 2016 Jun; 23(5):1495-501.
- Lipke DW, et al. Eflornithine alters changes in vascular responsiveness associated with coarctation hypertension. *Clin Exp Hypertens.* 1997 Apr;19(3):297-312.

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