

产品名称：依氟鸟氨酸盐酸盐一水合物

产品别名：**Eflornithine hydrochloride, hydrate; DFMO hydrochloride hydrate; MDL-71782 hydrochloride hydrate; RMI-71782 hydrochloride hydrate; α -difluoromethylornithine hydrochloride hydrate**

生物活性：					
Description	Eflornithine hydrochloride, hydrate is a specific, irreversible inhibitor of the enzyme ornithine decarboxylase. Eflornithine is a medication for the treatment of African trypanosomiasis and excessive facial hair growth in women.				
In Vivo	Eflornithine is the only new molecule registered for the treatment of human African trypanosomiasis over the last 50 years. It is the drug used mainly as a back-up for melarsoprol refractory Trypanosoma brucei gambiense cases[1]. In subjects with excessive, unwanted facial hair, eflornithine 15% cream is superior to placebo in reducing hair growth. After 24 weeks' treatment, 58% of eflornithine and 34% of placebo subjects have at least some improvement in facial hirsutism[2]. The hair growth inhibitory activity of eflornithine is significantly enhanced when the eflornithine cream is applied onto a mouse skin area pretreated with microneedles[3]. Treatment of coarctation hypertensive rats with eflornithine results in a normalization of the contractile intensity to KCl and norepinephrine and relaxations to acetylcholine by 14 days of hypertension[4].				
Solvent&Solubility	In Vitro: H₂O : ≥ 57 mg/mL (240.87 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	4.2258 mL	21.1291 mL	42.2583 mL
		5 mM	0.8452 mL	4.2258 mL	8.4517 mL
		10 mM	0.4226 mL	2.1129 mL	4.2258 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液，一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80℃，6 months；-20℃，1 month。-80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。					
References	[1]. Burri C, et al. Eflornithine for the treatment of human African trypanosomiasis. Parasitol Res. 2003 Jun;90 Supp 1:S49-52. [2]. Balfour JA, et al. Topical eflornithine. Am J Clin Dermatol. 2001;2(3):197-201; discussion 202. [3]. Kumar A, et al. A method to improve the efficacy of topical eflornithine hydrochloride cream. Drug Deliv. 2016 Jun;23(5):1495-501. [4]. Lipke DW, et al. Eflornithine alters changes in vascular responsiveness associated with coarctation hypertension. Clin Exp Hypertens. 1997 Apr;19(3):297-312.				
实验参考：					
Animal Administration	Mice: The skin area where the hair is removed is then treated with the eflornithine hydrochloride 13.9% cream (-50 mg per mouse per treatment) using a spatula 2 times a day in an interval of at least 8 h for a maximum period of 36 days[3].				
	[1]. Burri C, et al. Eflornithine for the treatment of human African trypanosomiasis. Parasitol Res.				

References	<u>2003 Jun;90 Supp 1:S49-52.</u> [2]. <u>Balfour JA, et al. Topical eflornithine. Am J Clin Dermatol. 2001;2(3):197-201; discussion 202.</u> [3]. <u>Kumar A, et al. A method to improve the efficacy of topical eflornithine hydrochloride cream. Drug Deliv. 2016 Jun;23(5):1495-501.</u> [4]. <u>Lipke DW, et al. Eflornithine alters changes in vascular responsiveness associated with coarctation hypertension. Clin Exp Hypertens. 1997 Apr;19(3):297-312.</u>
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源叶生物