

Eflornithine

Catalog No: tcsc2983



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

70052-12-9

Formula:

$C_6H_{12}F_2N_2O_2$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

DFMO;MDL71782;RMI71782; α -difluoromethylornithine

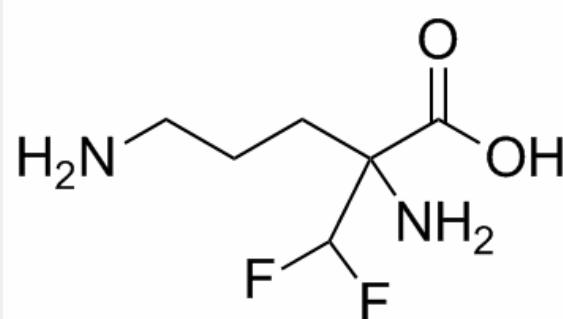
Observed Molecular Weight:

182.17

Product Description

Eflornithine 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].



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