Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Ilomastat

Catalog No: tcsc1701

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
142880-36-2

Formula:
$C_{20}H_{28}N_4O_4$

Pathway:
Metabolic Enzyme/Protease

Target:
MMP

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 47 mg/mL (120.99 mM)

Alternative Names:
Galardin;GM6001

Observed Molecular Weight:
388.46

Product Description

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Ilomastat (Galardin; GM6001) is a broad spectrum matrix metalloprotease (**MMP**) inhibitor, with **K_i** of 0.4 nM, 0.5 nM, 27 nM, 3.7 nM, 0.1 nM, 0.2 nM, 3.6 nM, 13.4 nM, 0.36 nM for MMP-1/2/3/7/8/9/12/14/26, respectively.

IC50 & Target: Ki: 0.4 nM (MMP-1), 0.5 nM (MMP-2), 27 nM (MMP-3), 3.7 nM (MMP-7), 0.1 nM (MMP-8), 0.2 nM (MMP-9), 3.6 nM (MMP-12), 13.4 nM (MMP-14), 0.36 nM (MMP-26)

In Vitro: Ilomastat (GM6001) inhibits human skin fibroblast collagenase with K_i of 0.4 nM when assayed with a synthetic thio ester substrate at pH 6.5, with 50-fold selectivity over two bacterial enzymes, thermolysin and Pseudomonas aeruginosa elastase[1]. Ilomastat (0.1 nM-10 nM) inhibits gelatinase A and gelatinase B produced by T-cells, and thus inhibits T-cell homing[4].

In Vivo: Ilomastat (GM6001) (400 μg/mL) prevents corneal ulceration after severe alkali injury[2]. Ilomastat (GM6001) significantly inhibits intimal hyperplasia and intimalcollagen content, and it increases lumen area in stented arteries without effects on proliferation rates in rabbit model after stenting[3].