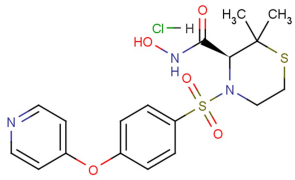
Data Sheet (Cat.No.T12539)

TargetMol
A DRUG SCREENING EXPERT

Prinomastat hydrochloride

Chemical Properties



CAS No.:	1435779-45-5
Formula:	C18H22ClN3O5S2
Molecular Weight:	459.97
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Prinomastat hydrochloride is a orally active inhibitor of metalloproteinase (MMP)(MMP-1, MMP-3 and MMP-9 with IC50s of 79, 6.3 and 5.0 nM , respectively),with Antitumor avtivity.
Targets(IC_{50})	MMP-9: 0.26 nM (ki) MMP-2: 0.05 nM (ki) MMP-1: 79 nM MMP-13: 0.3 nM (ki)
In vitro	Prinomastat inhibits Wnt1-induced MMP-3 production. Reversal of Wnt1-induced EMT and β-catenin transcriptional activity by Prinomastat[1].
In vivo	Prinomastat has good tumour growth inhibition, with a short T1/2 of 1.6 hours[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (217.41 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.174 mL	10.87 mL	21.741 mL
5 mM	0.435 mL	2.174 mL	4.348 mL
10 mM	0.217 mL	1.087 mL	2.174 mL
50 mM	0.043 mL	0.217 mL	0.435 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Sørensen MD, et al. Cyclic phosphinamides and phosphonamides, novel series of potent matrix metalloproteinase inhibitors with antitumour activity. Bioorg Med Chem. 2003 Dec 1;11(24):5461-84.
2. Blavier L, et al. Stromelysin-1 (MMP-3) is a target and a regulator of Wnt1-induced epithelial-mesenchymal transition (EMT). Cancer Biol Ther. 2010 Jul 15;10(2):198-208.
3. Shalinsky DR, et al. Broad antitumor and antiangiogenic activities of AG3340, a potent and selective MMP inhibitor undergoing advanced oncology clinical trials. Ann N Y Acad Sci. 1999 Jun 30;878:236-70.
4. Ozerdem U, et al. The effect of prinomastat (AG3340), a potent inhibitor of matrix metalloproteinases, on a subacute model of proliferative vitreoretinopathy. Curr Eye Res. 2000 Jun;20(6):447-53.

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