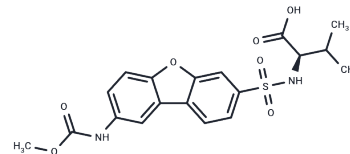


MMP-12 Inhibitor

Chemical Properties

CAS No. :	1258003-93-8
Formula:	C ₁₉ H ₂₀ N ₂ O ₇ S
Molecular Weight:	420.44
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	MMP-12 Inhibitor is a selective inhibitor of MMP-12 with IC ₅₀ s of 2, 160, 320, and 22.3 nM for human, mouse, rat, and sheep MMP-12.
Targets(IC ₅₀)	MMP
In vitro	MMP-12 Inhibitor shows weaker activity against human MMP-3, MMP-13, and MMP-14 with IC ₅₀ s of 351, 120, and 1100 nM[1].
In vivo	In mice, MMP-12 Inhibitor (5 mg/kg, p.o.) effectively alleviates rhMMP-12-induced pulmonary inflammatory response by more than 50%[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (118.9 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3785 mL	11.8923 mL	23.7846 mL
5 mM	0.4757 mL	2.3785 mL	4.7569 mL
10 mM	0.2378 mL	1.1892 mL	2.3785 mL
50 mM	0.0476 mL	0.2378 mL	0.4757 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.

Reference

Wei Li, et al. A Selective Matrix Metalloprotease 12 Inhibitor for Potential Treatment of Chronic Obstructive Pulmonary Disease (COPD): Discovery of (S)-2-(8-(Methoxycarbonylamino)dibenzo[b,d]furan-3-sulfonamido)-3-

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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