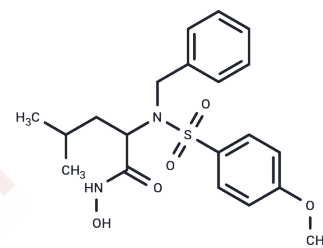


MMP-3 Inhibitor VIII

Chemical Properties

CAS No. :	208663-26-7
Formula:	C ₂₀ H ₂₆ N ₂ O ₅ S
Molecular Weight:	406.5
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Matrix metalloproteinase-3 (MMP-3), also known as stromelysin-1, is a critical enzyme involved in tissue remodeling and repair through its role in degrading extracellular matrix proteins, facilitating cell migration. This enzyme has been implicated in various physiological processes including vascular remodeling associated with aneurysm formation, wound healing, the progression of atherosclerosis, and tumor initiation. MMP-3 inhibitor VIII, a cell-permeable sulfonamide-based hydroxamic acid, effectively inhibits MMP-3 by binding to its active site ($K_i = 23$ nM), thus blocking its enzymatic activity. Additionally, this inhibitor has been demonstrated to suppress the activity of mouse macrophage metalloelastase MME/MMP-12, with an IC_{50} value of 13 nM, highlighting its potential utility in research on tissue remodeling and disease processes involving MMPs.
Targets(IC_{50})	MMP, Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.460 mL	12.3001 mL	24.6002 mL
5 mM	0.492 mL	2.460 mL	4.920 mL
10 mM	0.246 mL	1.230 mL	2.460 mL
50 mM	0.0492 mL	0.246 mL	0.492 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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