

MMP-3 Inhibitor acetate

Chemical Properties

CAS No. :

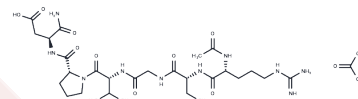
Formula: C₂₉H₅₀N₁₀O₁₁S

Molecular Weight: 746.83

Keep away from moisture

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	MMP-3 Inhibitor acetate is a cell-permeable and potent inhibitor of human MMP-3.
Targets(IC50)	MMP
In vitro	MMP3 inhibitor 1 (Compound 27) inhibits MMP-1, MMP-2, MMP-9, and MMP-14 with IC50s of 14000, 529, 2420, and 20100 nM, respectively[1].
In vivo	MMP-3 Inhibitor is a cell-permeable p-methoxysulfonamido D-leucine containing hydroxamate compound that acts as a potent inhibitor of human MMP-3 (stromelysin; Ki = 23 nM) and murine macrophage metalloelastase (MME/MMP-12; IC50 = 13 nM). Binds to the MMP active site Zn ²⁺ [2] [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.339 mL	6.695 mL	13.3899 mL
5 mM	0.2678 mL	1.339 mL	2.678 mL
10 mM	0.1339 mL	0.6695 mL	1.339 mL
50 mM	0.0268 mL	0.1339 mL	0.2678 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.

Reference

Gavin A Whitlock, et al. A novel series of highly selective inhibitors of MMP-3. *Bioorg Med Chem Lett.* 2007 Dec 15; 17(24):6750-3.

Ai Ing Lim, et al. Distinct role of matrix metalloproteinase-3 in kidney injury molecule-1 shedding by kidney proximal tubular epithelial cells. *Int J Biochem Cell Biol.* 2012 Jun;44(6):1040-50.

Ran Gao, et al. Heterogeneous nuclear ribonucleoprotein K (hnRNP-K) promotes tumor metastasis by induction of genes involved in extracellular matrix, cell movement, and angiogenesis. *J Biol Chem.* 2013 May 24;288(21):15046-56.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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