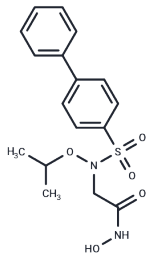
Data Sheet (Cat.No.T14322)

TargetMol

ARP-100

Chemical Properties



CAS No. : 704888-90-4

Formula: C17H20N2O5S

Molecular Weight: 364.42

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	ARP-100 (MMP-2 Inhibitor III) is a potent and selective matrix metalloproteinase MMP-2 inhibitor (IC50=12 nM). ARP-100 interacts with the S1' pocket of MMP-2 and exhibits anti-invasive properties in an in vitro invasion Matrigel model. ARP-100 has low inhibitory activity against MMP-1 (>50 μM), MMP-3 (4.5 μM), MMP-7 (>50 μM) and MMP-9 (0.2 μM) [1][2].
Targets(IC50)	MMP
In vitro	ARP-100 (50 nM) exhibits a significant reduction in the total number of invasive elongations[1].

Solubility Information

Solubility	DMSO: 96 mg/mL (263.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.06 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7441 mL	13.7204 mL	27.4409 mL
5 mM	0.5488 mL	2.7441 mL	5.4882 mL
10 mM	0.2744 mL	1.372 mL	2.7441 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 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

Rossello A, et al. New N-arylsulfonyl-N-alkoxyaminoacetohydroxamic acids as selective inhibitors of gelatinase A (MMP-2). Bioorg Med Chem. 2004 May 1;12(9):2441-50.

Tuccinardi T, et al. Amber force field implementation, molecular modelling study, synthesis and MMP-1/MMP-2 inhibition profile of (R)- and (S)-N-hydroxy-2-(N-isopropoxybiphenyl-4-ylsulfonamido)-3-methylbutanamides. Bioorg Med Chem. 2006 Jun 15;14(12):4260-76.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481