

TP0556351

## Chemical Properties

CAS No. : 2787582-17-4  
 Formula: C50H70N10O16  
 Molecular Weight: 1067.15  
 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	TP0556351, a potent and selective inhibitor of matrix metalloproteinase-2 (MMP2), exhibits significant efficacy with an IC50 of 0.2 nM and demonstrates the capability to decrease collagen accumulation in a Bleomycin-induced pulmonary fibrosis mouse model. This compound shows promise as a research tool for idiopathic pulmonary fibrosis (IPF) [1].
Targets(IC50)	MMP
In vivo	TP0556351, administered subcutaneously at doses of 0.03, 0.1, 0.3, or 1 mg/kg/day for a duration of 14 days, significantly decreases pulmonary collagen accumulation in a mouse model of Bleomycin-induced pulmonary fibrosis [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9371 mL	4.6854 mL	9.3708 mL
5 mM	0.1874 mL	0.9371 mL	1.8742 mL
10 mM	0.0937 mL	0.4685 mL	0.9371 mL
50 mM	0.0187 mL	0.0937 mL	0.1874 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.

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