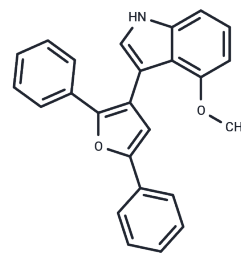


MMP-9-IN-6

Chemical Properties

CAS No. : 2241964-36-1
 Formula: C₂₅H₁₉NO₂
 Molecular Weight: 365.42
 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	MMP-9-IN-6 is an MMP-9 inhibitor with an IC ₅₀ value of 50 μM and good anti-ulcer efficacy. MMP-9-IN-6 has potential anti-tumor activity and can be used to study tissue remodeling, wound repair and atherosclerosis.
Targets(IC ₅₀)	MMP

Solubility Information

Solubility	DMSO: 50 mg/mL (136.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (6.84 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7366 mL	13.6829 mL	27.3658 mL
5 mM	0.5473 mL	2.7366 mL	5.4732 mL
10 mM	0.2737 mL	1.3683 mL	2.7366 mL
50 mM	0.0547 mL	0.2737 mL	0.5473 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

Rudra DS, et al. Newly Synthesized 3-Indolyl Furanoid Inhibits Matrix Metalloproteinase-9 Activity and Prevents Nonsteroidal Anti-inflammatory Drug-Induced Gastric Ulceration. J Med Chem. 2023;66(13):8917-8928.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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