

MMP-9-IN-1

Chemical Properties

CAS No. : 502887-71-0

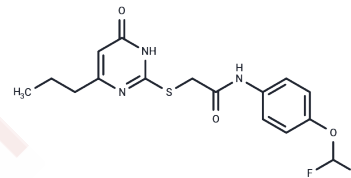
Formula: C₁₆H₁₇F₂N₃O₃S

Molecular Weight: 369.39

Store under nitrogen

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-1 is an inhibitor of specific matrix metalloproteinase-9 (MMP-9).
Targets(IC50)	MMP
In vitro	MMP-9-IN-1 inhibits tumor growth and metastasis by reducing cell migration and proliferation.
Cell Research	Cell Line:HT-1080 and MDA-MB-435 cancer cells expressing endogenous MMP-9. Concentration:10 μM.Incubation Time:9 days

Solubility Information

Solubility	DMSO: 250 mg/mL (676.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.93 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	2.7072 mL	13.5358 mL	27.0717 mL
5 mM	0.5414 mL	2.7072 mL	5.4143 mL
10 mM	0.2707 mL	1.3536 mL	2.7072 mL
50 mM	0.0541 mL	0.2707 mL	0.5414 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

Dufour A, et al. Small-molecule anticancer compounds selectively target the hemopexin domain of matrix metalloproteinase-9. *Cancer Res.* 2011 Jul 15;71(14):4977-88.

Shuyuan F, Yan F X, Kun L, et al. Transcriptomics-based study of the protective effect of ethyl gallate on intestinal ischemia-reperfusion injury in mice. *Chemistry & Biodiversity.* 2022

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