

## Methuosis inducer 1

## Chemical Properties

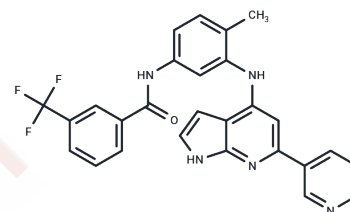
CAS No. : 2240205-30-3

Formula: C<sub>27</sub>H<sub>20</sub>F<sub>3</sub>N<sub>5</sub>O

Molecular Weight: 487.48

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	Methuosis inducer 1 is a potent methuosis inducer with anticancer activity.
Targets(IC50)	Others
In vivo	Methuosis inducer 1 exhibited substantial pharmacological efficacy in the suppression of tumor growth in a xenograft mouse model of MDA-MB-231 cells without apparent side effects, which makes this compound the first example of a methuosis inducer with potent in vivo efficacy. These results demonstrate that methuosis inducers might serve as novel therapeutics for the treatment of cancer.

## Solubility Information

Solubility	DMSO: 120 mg/mL (246.16 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: 2 mg/mL (4.1 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

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	1mg	5mg	10mg
1 mM	2.0514 mL	10.2568 mL	20.5137 mL
5 mM	0.4103 mL	2.0514 mL	4.1027 mL
10 mM	0.2051 mL	1.0257 mL	2.0514 mL
50 mM	0.041 mL	0.2051 mL	0.4103 mL

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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

Wei H , Xihuan S , Yunzhan L , et al. Discovery and Identification of Small Molecules as Methuosis Inducers with In Vivo Antitumor Activities[J]. Journal of Medicinal Chemistry, 2018:acs.jmedchem.8b00753-.

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