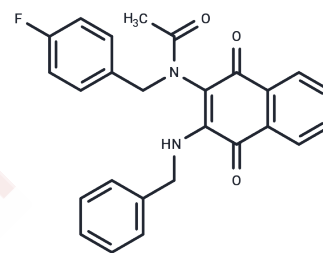


## RIPGBM

## Chemical Properties

CAS No. :	355406-76-7
Formula:	C <sub>26</sub> H <sub>21</sub> FN <sub>2</sub> O <sub>3</sub>
Molecular Weight:	428.45
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	RIPGBM is a selective inducer of apoptosis in glioblastoma multiforme cancer stem cells (EC <sub>50</sub> : ≤500 nM).
Targets(IC <sub>50</sub> )	Apoptosis
In vitro	RIPGBM causes caspase 1-dependent apoptosis by binding to receptor-interacting protein kinase 2 and acting as a molecular switch. It reduces the formation of a prosurvival RIPK2/ TAK1 complex and increases the formation of a proapoptotic RIPK2/caspase 1 complex [1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (70.02 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 (4.67 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.334 mL	11.670 mL	23.3399 mL
5 mM	0.4668 mL	2.334 mL	4.668 mL
10 mM	0.2334 mL	1.167 mL	2.334 mL
50 mM	0.0467 mL	0.2334 mL	0.4668 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

Lucki NC, et al. A cell type-selective apoptosis-inducing small molecule for the treatment of brain cancer. Proc Natl Acad Sci U S A. 2019 Mar 26;116(13):6435-6440.

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