

M50054

## Chemical Properties

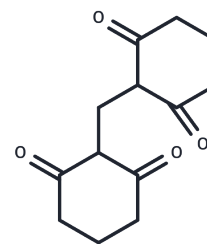
CAS No. : 54135-60-3

Formula: C<sub>13</sub>H<sub>16</sub>O<sub>4</sub>

Molecular Weight: 236.26

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	Apoptosis Inhibitor was a novel inhibitor of programmed cell death associate with caspase-3 inhibition.
Targets(IC50)	Apoptosis,Caspase
In vitro	Apoptosis Inhibitor was identified as a novel inhibitor of apoptosis (programmed cell death) using an in vitro cell death assay system induced in human Fas-expressing WC8 cells by soluble human Fas ligand.

## Solubility Information

Solubility	DMSO: 9 mg/mL (38.09 mM),Sonication is recommended. H2O: 0.1 mg/mL (0.42 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.23 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	4.2326 mL	21.1631 mL	42.3263 mL
5 mM	0.8465 mL	4.2326 mL	8.4653 mL
10 mM	0.4233 mL	2.1163 mL	4.2326 mL
50 mM	0.0847 mL	0.4233 mL	0.8465 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

Tsuda T , Ohmori Y , Muramatsu H , et al. Inhibitory effect of M50054, a novel inhibitor of apoptosis, on anti-Fas-antibody-induced hepatitis and chemotherapy-induced alopecia.[J]. European Journal of Pharmacology, 2001, 433 (1):37-45.

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