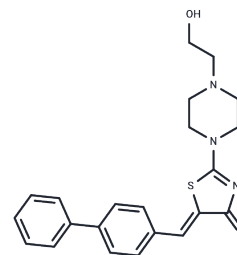


## CLZ-8

## Chemical Properties

CAS No. :	678158-55-9
Formula:	C22H23N3O2S
Molecular Weight:	393.5
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	CLZ-8 (Mcl1-IN-8) is an orally active inhibitor of Mcl-1-PUMA (p53 up-regulated mediator of apoptosis) with radioprotective properties. CLZ-8 ameliorates radiation-induced HUVEC cell damage and reduces apoptosis counts, and inhibits radiation-induced overexpression of PUMA.
Targets(IC50)	Apoptosis, Bcl-2 Family
In vitro	In DLD-1 cells or HUVEC cells, CLZ-8 (0-160 $\mu$ M; 48 hours for DLD-1 or 24 hours for HUVECs) significantly inhibits PUMA-dependent apoptosis with an IC50 of $38.93 \pm 0.91$ $\mu$ M and attenuates radiation-induced apoptosis[1].
In vivo	In 6-8 week-old male BALB/c mice, CLZ-8 (100, 200, and 400 mg/kg; intragastric administration, once, 30 minutes prior to irradiation) increases the survival rate of irradiated mice[2].

## Solubility Information

Solubility	DMSO: 40 mg/mL (101.65 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.54 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	2.5413 mL	12.7065 mL	25.413 mL
5 mM	0.5083 mL	2.5413 mL	5.0826 mL
10 mM	0.2541 mL	1.2706 mL	2.5413 mL
50 mM	0.0508 mL	0.2541 mL	0.5083 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

Liu J, et al. Targeting the apoptotic Mcl-1-PUMA interface with a dual-acting compound. *Oncotarget*. 2017 Apr 20;8(33):54236-54242.

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