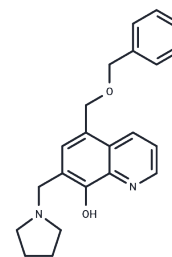


UC-112

## Chemical Properties

CAS No. : 383392-66-3  
 Formula: C<sub>22</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 348.44  
 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	UC-112 is a novel, potent IAP inhibitor that effectively inhibits cell growth in two human melanoma and two human prostate cancer cell lines (IC <sub>50</sub> =0.7-3.4 μM).
Targets(IC <sub>50</sub> )	Apoptosis,Others,IAP
In vitro	UC-112 also effectively inhibits the growth of P-glycoprotein (P-gp)-overexpressed multidrug-resistant cancer cells, strongly activates caspase-3/7 and caspase-9 activities, and selectively downregulates survivin level at a concentration as low as 1 μM. Coincubation of UC-112 with a known proteasome inhibitor Z-Leu-Leu-Leu-CHO rescued survivin inhibition, consistent with the anticipated mechanism of action for UC-112[1].
In vivo	UC-112 strongly inhibits tumor growth and reduces both X chromosome-linked IAP and survivin levels in an A375 human melanoma xenograft model in vivo [1].

## Solubility Information

Solubility	DMSO: 8 mg/mL (22.96 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: 1 mg/mL (2.87 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	2.8699 mL	14.3497 mL	28.6993 mL
5 mM	0.574 mL	2.8699 mL	5.7399 mL
10 mM	0.287 mL	1.435 mL	2.8699 mL
50 mM	0.0574 mL	0.287 mL	0.574 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

Wang J, et al. Discovery of novel second mitochondria-derived activator of caspase mimetics as selective inhibitor of apoptosis protein inhibitors. J Pharmacol Exp Ther. 2014 May;349(2):319-29.

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