

UC-112

Chemical Properties

CAS No.:	383392-66-3
Formula:	C ₂₂ H ₂₄ N ₂ O ₂
Molecular Weight:	348.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	UC-112 is a novel potent IAP inhibitor and potently inhibits cell growth in two human melanoma and two human prostate cancer cell lines (IC ₅₀ =0.7-3.4 μ M).
Targets(IC ₅₀)	Others: None
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 μ M. 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.
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	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.87 mL	14.35 mL	28.699 mL
5 mM	0.574 mL	2.87 mL	5.74 mL
10 mM	0.287 mL	1.435 mL	2.87 mL
50 mM	0.057 mL	0.287 mL	0.574 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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