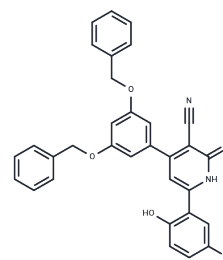


LLP-3

Chemical Properties

CAS No. :	1453835-43-2
Formula:	C ₃₂ H ₂₃ ClN ₂ O ₄
Molecular Weight:	534.99
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	LLP-3 is a class of Survivin inhibitor that interferes with the interaction of the Survivin-Ran protein complex in cancer cells and can be used in related studies of glioblastoma multiforme.
Targets(IC50)	Survivin
In vitro	<p>Methods: Cells were treated with LLP-3 (20µM) for 24h. Results: LLP-3 disrupted the binding of Survivin to the pro-apoptotic protein Smac/DIABLO, without affecting the interaction of Survivin with other chromosomal passenger complex (CPC) proteins.</p> <p>Methods: U87cells were treated with LLP-3 (20µM) for 24h. Results: LLP-3 reduced the interaction level between Survivin and Ran in U87cells.</p> <p>Methods: Cells were treated with LLP-3 (20µM) for 24h. Results: LLP-3 arrested cells at the G0-G1 phase, thereby inducing tumor cell death.</p> <p>Methods: HT1080cells were treated with LLP-3 (20µM) for 24h. Results: LLP-3 triggered caspase-dependent apoptosis in HT1080cells.</p> <p>Methods: Tumor cells were treated with LLP-3 (0-100µM) for 72h. Results: LLP-3 decreased tumor cell viability through p53-mediated inhibition[1].</p>
In vivo	<p>Methods: Mice bearing GBM sphere-derived tumors were intraperitoneally injected with LLP-3 (25 mg/kg) for 10 consecutive days. Results: LLP-3 prolonged the survival time of mice bearing GBM sphere-derived tumors [1].</p>

Solubility Information

Solubility	<p>DMF:PBS(pH7.2) (1:2): 0.3 mg/mL (0.56 mM),Sonication is recommended.</p> <p>DMF: 1 mg/mL (1.87 mM),Sonication is recommended.</p> <p>DMSO: 1 mg/mL (1.87 mM),Sonication is recommended.</p> <p>DMF: PBS(pH7.2) (1: 2): < 1 mg/mL (insoluble)</p> <p>(< 1 mg/ml refers to the product slightly soluble or insoluble)</p>
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8692 mL	9.346 mL	18.6919 mL
5 mM	0.3738 mL	1.8692 mL	3.7384 mL
10 mM	0.1869 mL	0.9346 mL	1.8692 mL
50 mM	0.0374 mL	0.1869 mL	0.3738 mL

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

Hacer Guvenc, et al. Impairment of glioma stem cell survival and growth by a novel inhibitor for Survivin-Ran protein complex. Clin Cancer Res. 2013 Feb 1;19(3):631-42.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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