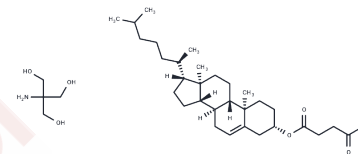


## Cholesteryl Hemisuccinate Tris Salt

### Chemical Properties

CAS No. :	102601-49-0
Formula:	C <sub>35</sub> H <sub>61</sub> N <sub>7</sub> O <sub>7</sub>
Molecular Weight:	607.86
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	Cholesteryl Hemisuccinate Tris Salt is an acidic cholesteryl ester with hepatoprotective and anticancer activity. Cholesteryl hemisuccinate is a membrane stabilizer in dipalmitoylphosphatidylcholine liposomes containing Chaikosaponin-d, which enhances the anticancer efficacy of cisplatin. Cholesteryl hemisuccinate possesses antitumor activity, inhibits tumor growth, inhibits the hepatotoxicity of acetaminophen (AAP) and prevents AAP-induced apoptosis of hepatocytes. Cholesteryl hemisuccinate protects rodents against the toxic effects of acetaminophen, adriamycin, carbon tetrachloride, chloroform, and galactosamine.
Targets(IC50)	Apoptosis, DNA/RNA Synthesis, Necroptosis, Topoisomerase

### Solubility Information

Solubility	H <sub>2</sub> O: 1 mg/mL (1.65 mM), Sonication is recommended. DMSO: 250 mg/mL (411.28 mM), Sonication is recommended. Ethanol: 6.66 mg/mL (10.96 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (16.45 mM), Suspension. <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	1.6451 mL	8.2256 mL	16.4512 mL
5 mM	0.329 mL	1.6451 mL	3.2902 mL
10 mM	0.1645 mL	0.8226 mL	1.6451 mL
50 mM	0.0329 mL	0.1645 mL	0.329 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

Brian MCBEAN, et al. Multi-component powder coating compositions and methods for heat sensitive substrates: WO2022266647A1.

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