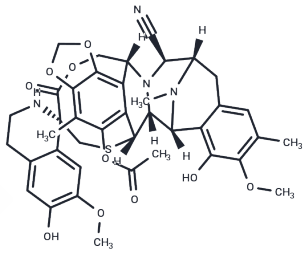
Data Sheet (Cat.No.T11150)

TargetMol

Ecteinascidin 770

Chemical Properties



CAS No. : 114899-80-8

Formula: C40H42N4O10S

Molecular Weight: 770.85

Storage: Keep away from direct sunlight
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	Ecteinascidin 770 inhibits SARS-CoV-2 and Mycobacterium tuberculosis by inhibiting cancer cell viability through RDRP1 (RNA-dependent RNA polymerase 1).
Targets(IC50)	Apoptosis,Antibacterial,DNA/RNA Synthesis,SARS-CoV
In vitro	**Methods**: U373MG glioblastoma cells were treated with Ecteinascidin 770, and cytotoxicity was detected by MTT assay. **Results**: The IC 50 value of Ecteinascidin 770 against U373MG cells was 4.83 nM. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (51.89 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: 2 mg/mL (2.59 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2973 mL	6.4863 mL	12.9727 mL
5 mM	0.2595 mL	1.2973 mL	2.5945 mL
10 mM	0.1297 mL	0.6486 mL	1.2973 mL
50 mM	0.0259 mL	0.1297 mL	0.2595 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

Tabunoki H, et al. Molecular network profiling of U373MG human glioblastoma cells following induction of apoptosis by novel marine-derived anti-cancer 1,2,3,4-tetrahydroisoquinoline alkaloids. Cancer Cell Int. 2012 Apr 11;12(1):14.

Saktrakulkla P, et al. Chemistry of ecteinascidins. Part 3: preparation of 2'-N-acyl derivatives of Ecteinascidin 770 and evaluation of cytotoxicity. Bioorg Med Chem. 2011 Aug 1;19(15):4421-36.

Powan P, et al. Ecteinascidin 770, a tetrahydroisoquinoline alkaloid, sensitizes human lung cancer cells to anoikis. Anticancer Res. 2013 Feb;33(2):505-12.

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