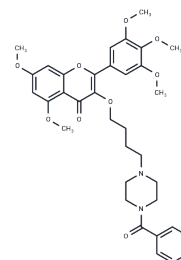


Telomerase-IN-2

Chemical Properties

CAS No. :	1610878-54-0
Formula:	C34H39N3O9
Molecular Weight:	633.69
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	Telomerase-IN-2 (Telomerase inhibitor 2) shows potent inhibitory activity against telomerase by decreasing the expression of dyskerin (IC50: 0.89µM).
Targets(IC50)	Telomerase
In vitro	Telomerase-IN-2 exhibits high activity against Hela, SMMC-7721, SGC-7901, U87 and HepG2 cell lines in the anticancer activity assay in vitro[1].

Solubility Information

Solubility	DMSO: 235 mg/mL (370.84 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: 5 mg/mL (7.89 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

	1mg	5mg	10mg
1 mM	1.5781 mL	7.8903 mL	15.7806 mL
5 mM	0.3156 mL	1.5781 mL	3.1561 mL
10 mM	0.1578 mL	0.789 mL	1.5781 mL
50 mM	0.0316 mL	0.1578 mL	0.3156 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

Quan Wang J, et al. Discovery of new chromen-4-one derivatives as telomerase inhibitors through regulating expression of dyskerin. J Enzyme Inhib Med Chem. 2018 Dec;33(1):1199-1211.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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