

TMPyP4 tosylate

Chemical Properties

CAS No. :	36951-72-1
Formula:	C72H66N8O12S4
Molecular Weight:	1363.6
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	TMPyP4 tosylate (TMP 1363) is a quadruplex-specific ligand and telomerase inhibitor that exhibits antitumor effects in osteosarcoma cell lines.
Targets(IC50)	Cholinesterase (ChE),DNA/RNA Synthesis,SARS-CoV,Telomerase

Solubility Information

Solubility	H2O: 6.2 mg/mL (4.55 mM),Sonication is recommended. DMSO: 18.33 mg/mL (13.44 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: 1 mg/mL (0.73 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	0.7334 mL	3.6668 mL	7.3335 mL
5 mM	0.1467 mL	0.7334 mL	1.4667 mL
10 mM	0.0733 mL	0.3667 mL	0.7334 mL
50 mM	0.0147 mL	0.0733 mL	0.1467 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

Fujimori J, et al. Antitumor effects of telomerase inhibitor TMPyP4 in osteosarcoma cell lines. J Orthop Res. 2011 Nov;29(11):1707-11.

Chen H, et al. Insuline-like growth factor type I selectively binds to G-quadruplex structures. Biochim Biophys Acta Gen Subj. 2019 Jan;1863(1):31-38.

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