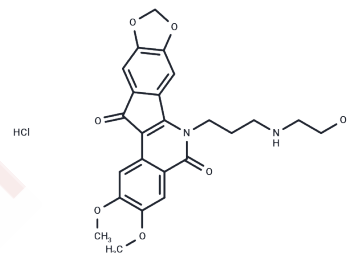


LMP744 hydrochloride

Chemical Properties

CAS No. :	308246-57-3
Formula:	C ₂₄ H ₂₅ ClN ₂ O ₇
Molecular Weight:	488.92
Storage:	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	LMP744 hydrochloride (NSC-706744 hydrochloride) is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity.
Targets(IC50)	Topoisomerase
In vitro	LMP744 (0.1-5 μM, 3 days) induces dose-dependent accumulation of cells in the S and G2 phases of the cell cycle[2].The GI50 value of LMP744 for NCI60 cells is 0.1 μM[2].
In vivo	LMP744 (10-50 mg/kg) administered i.v. push once a week for 4 weeks in nude mice moderately activates against human A253 and FaDu tumor xenografts without significant toxicity[1].

Solubility Information

Solubility	DMSO: 5.56 mg/mL (11.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0453 mL	10.2266 mL	20.4532 mL
5 mM	0.4091 mL	2.0453 mL	4.0906 mL
10 mM	0.2045 mL	1.0227 mL	2.0453 mL
50 mM	0.0409 mL	0.2045 mL	0.4091 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

Antony S, et al. Cellular topoisomerase I inhibition and antiproliferative activity by MJ-III-65 (NSC 706744), an indenoisoquinoline topoisomerase I poison. *Mol Pharmacol.* 2005 Feb;67(2):523-30.

Antony S, et al. Bisindenoisoquinoline bis-1,3-[(5,6-dihydro-5,11-diketo-11H-indeno [1,2-c]isoquinoline)-6-propylamino]propane bis(trifluoroacetate) (NSC 727357), a DNA intercalator and topoisomerase inhibitor with antitumor activity. *Mol Pharmacol.* 2006 Sep;70(3):1109-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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