

## LMP744 hydrochloride

**Chemical Properties**

CAS No.:	308246-57-3
Formula:	C <sub>24</sub> H <sub>25</sub> CIN <sub>2</sub> O <sub>7</sub>
Molecular Weight:	488.92
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	LMP744 hydrochloride is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity.
Targets(IC <sub>50</sub> )	Top1: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.045 mL	10.227 mL	20.453 mL
5 mM	0.409 mL	2.045 mL	4.091 mL
10 mM	0.205 mL	1.023 mL	2.045 mL
50 mM	0.041 mL	0.205 mL	0.409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.
2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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