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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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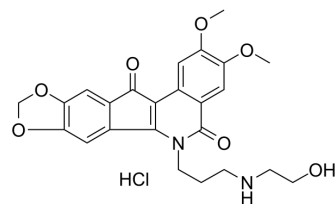
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LMP744 hydrochloride

Cat. No.:	HY-U00248A
CAS No.:	308246-57-3
Molecular Formula:	C ₂₄ H ₂₅ ClN ₂ O ₇
Molecular Weight:	488.92
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 105 mg/mL (214.76 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description	LMP744 hydrochloride (MJ-III65 hydrochloride) is a DNA intercalator and Topoisomerase I (Top1) inhibitor with antitumor activity ^[1] .								
IC₅₀ & Target	Top1								
In Vitro	The GI₅₀ value of LMP744 (MJ-III-65) for NCI60 cells is 0.1 μM^[2]. LMP744 (0.1-5 μM, 3 days) induces dose-dependent accumulation of cells in the S and G₂ phases of the cell cycle^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[2] <table border="1"> <tr> <td>Cell Line:</td><td>P388 and P388 Top1-deficient murine leukemia cells.</td></tr> <tr> <td>Concentration:</td><td>0.1-100 μM</td></tr> <tr> <td>Incubation Time:</td><td>3 days</td></tr> <tr> <td>Result:</td><td>Induced dose-dependent accumulation of cells in the S and G₂ phases of the cell cycle.</td></tr> </table>	Cell Line:	P388 and P388 Top1-deficient murine leukemia cells.	Concentration:	0.1-100 μM	Incubation Time:	3 days	Result:	Induced dose-dependent accumulation of cells in the S and G ₂ phases of the cell cycle.
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Concentration:	0.1-100 μM								
Incubation Time:	3 days								
Result:	Induced dose-dependent accumulation of cells in the S and G ₂ phases of the cell cycle.								

In Vivo

LMP744 (MJ-III-65) (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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Athymic nude mice (nu/nu, female, 20-25 g, 8-12 weeks old) transplanted with A253 and FaDu human head and neck xenografts ^[1] .
Dosage:	10, 25, or 50 mg/kg/week, 4 weeks
Administration:	I.V. push via tail vein
Result:	Moderately activated against human A253 and FaDu tumor xenografts without significant toxicity.

REFERENCES

[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

Caution: Product has not been fully validated for medical applications. For research use only.

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