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## Product Data Sheet

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Product Name: LMP744 (MJ-III65)

Cat. No.: GC33389

### Chemical Properties

Cas. No. 308246-52-8

SMILES OCCNCCCN1C2=C(C(C3=CC(OCO4)=C4C=C23)=O)C5=CC(OC)=C(OC)C=C5C1=OFormula  $C_{24}H_{24}N_2O_7$ 

M.Wt

452.46

Solubility Soluble in DMSO

Storage

Store at -20°C

**General tips** For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Shipping Condition** Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure 

### Background

LMP744 (MJ-III65) is a DNA intercalator and Topoisomerase (Top1) inhibitor with antitumor activity[1].

The GI50 value of LMP744 (MJ-III-65) for NCI60 cells is 0.1 μM[1]. LMP744 (0.1-5 μM, 3 days) induces dose-dependent accumulation of cells in the S and G2 phases of the cell cycle[1].  
 Cell Viability Assay[1] | 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 G2 phases of the cell cycle

MJ-III-65 (10-50 mg/kg) administered i.v. push once a week for 4 weeks in nude mice moderately active against human A253 and FaDu tumor xenografts without significant toxicity[2].  
 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[2].  
 Dosage: 10, 25, or 50 mg/kg/week, 4 weeks | Administration: i.v. push via tail vein | Result: moderately active against human A253 and FaDu tumor xenografts without significant toxicity

[1]. Antony S, et al. Novel indenoisoquinolines NSC 725776 and NSC 724998 produce persistent topoisomerase I cleavage complexes and overcome multidrug resistance. *Cancer Res.* 2007 Nov 1;67(21):10397-405. [2]. Antony S, et al. Cellular topoisomerase I inhibition

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

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

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