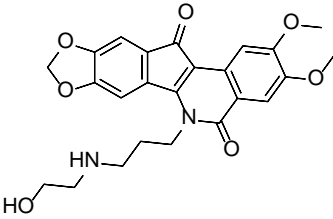


Product data sheet



MedKoo Cat#: 406962 Name: LMP744 free base CAS: 308246-52-8 (free base) Chemical Formula: C ₂₄ H ₂₄ N ₂ O ₇ Exact Mass: 452.1584 Molecular Weight: 452.463		
Product supplied as:		Powder
Purity (by HPLC):		≥ 98%
Shipping conditions		Ambient temperature
Storage conditions:		Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

LMP744, also known as Mj-III-65 and NSC-706744, is a DNA intercalator and topoisomerase inhibitor with antitumor activity. LMP744 produces persistent topoisomerase I cleavage complexes and overcome multidrug resistance. Consistent with Top1 poisoning, protein-linked DNA breaks were detected in cells treated with LMP744 at nanomolar concentrations. Studies in human cells in culture found LMP744 to be cytotoxic. Furthermore, limited cross-resistance was observed in camptothecin-resistant cell lines. LMP744 also exhibits antitumor activity in mouse tumor xenografts.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	4.17	9.22

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.21 mL	11.05 mL	22.10 mL
5 mM	0.44 mL	2.21 mL	4.42 mL
10 mM	0.22 mL	1.11 mL	2.21 mL
50 mM	0.04 mL	0.22 mL	0.44 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

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

In vitro activity

TBD

In vivo activity

TBD

Product data sheet



Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.