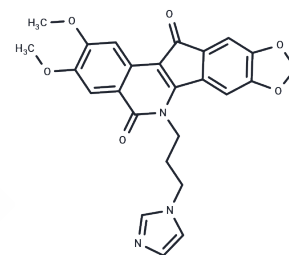


IndiMitecan

Chemical Properties

CAS No. :	915360-05-3
Formula:	C ₂₅ H ₂₁ N ₃ O ₆
Molecular Weight:	459.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	IndiMitecan (LMP776) is an inhibitor of topoisomerase I (Top1) with anticancer activities [1].
Targets(IC50)	Topoisomerase
In vitro	Indimitecan (LMP776) exhibits antiproliferative effects across a variety of human cancer cell lines, demonstrating a mean-graph midpoint (MGM) for growth inhibition at $0.079 \pm 0.023 \mu\text{M}$, as per the National Cancer Institute's developmental therapeutics assay ("NCI60"). Its potent efficacy is highlighted by its ability to induce DNA cleavage through Top1 inhibition and its role as a substrate for metabolic ketone reductases. In specific cell proliferation assays involving cell lines such as HOP-62, HCT-116, SF-539, UACC-62, OVCAR-3, SN12C, DU-145, and MCF-7, Indimitecan showed growth inhibition with GI50s ranging from <0.01 to $0.08 \mu\text{M}$, underscoring its potent antiproliferative activities across a diverse set of cancer cell lines.

Solubility Information

Solubility	DMSO: 7.7 mg/mL (16.76 mM), when pH is adjusted to 3 with HCl. Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1765 mL	10.8826 mL	21.7652 mL
5 mM	0.4353 mL	2.1765 mL	4.353 mL
10 mM	0.2177 mL	1.0883 mL	2.1765 mL
50 mM	0.0435 mL	0.2177 mL	0.4353 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

Cinelli MA, et al. Identification, synthesis, and biological evaluation of metabolites of the experimental cancer treatment drugs indotecan (LMP400) and indimitecan (LMP776) and investigation of isomerically hydroxylated indenoisoquinoline analogues as topoisomerase I poisons. *J Med Chem.* 2012 Dec 27;55(24):10844-62.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481