

Product Data Sheet

Product Name: Indimitecan

Cat. No.: GC65939

Chemical Properties

Cas. No. 915360-05-3

Formula $C_{25}H_{21}N_3O_6$ M.Wt 459.45

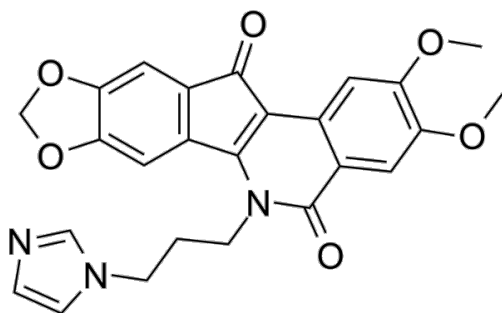
Solubility DMSO : 8.33 mg/mL (18.13 mM);
ultrasonic and warming and adjust
pH to 3 with HCl and heat to 60°C

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

Indimitecan (LMP776) is a topoisomerase I (**Top1**) inhibitor with anticancer activities^[1].

Indimitecan (LMP776) (0-100 μ M) shows antiproliferative potencies against various human cancer cell lines, with mean-graph midpoint (MGM) of $0.079 \pm 0.023 \mu$ M^[1].

Indimitecan shows potent DNA cleavage due to Top1 inhibition^[1].

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

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Indimitecan can be substrates for metabolic ketone reductases^[1].

Cell Proliferation Assay^[1]

Cell Line: HOP-62, HCT-116, SF-539, UACC-62, OVCAR-3, SN12C, DU-145, MCF-7

Concentration: 0-100 μ M

Incubation

Time:

Result: Showed growth inhibition with GI₅₀s of <0.01, <0.01, 0.04, <0.01, 0.08, <0.01, <0.01 and 0.01 μ M against HOP-62, HCT-116, SF-539, UACC-62, OVCAR-3, SN12C, DU-145 and MCF-7 cells, respectively. And the mean-graph midpoint (MGM) for growth inhibition of all human cancer cell lines successfully tested (the National Cancer Institute's developmental therapeutics assay (the "NCI60")) was $0.079 \pm 0.023 \mu$ M.

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