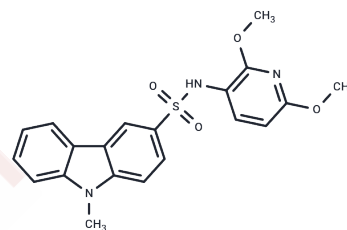


IG-105

Chemical Properties

CAS No. : 905978-63-4
 Formula: C₂₀H₁₉N₃O₄S
 Molecular Weight: 397.45
 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	IG-105 is a potent microtubule inhibitor with potential anticancer activity. IG-105 inhibits microtubule assembly by binding at colchicine pocket. IG-105 shows a potent anticancer activity in vitro and in vivo and has good safety in mice. IG-105 showed a potent activity against human leukemia and solid tumors in breast, liver, prostate, lung, skin, colon, and pancreas with IC(50) values between 0.012 and 0.298 μmol/L. It was also active in drug-resistant tumor cells and not a P-glycoprotein substrate. It inhibited microtubule assembly followed by M-phase arrest, Bcl-2 inactivation, and then apoptosis through caspase pathways.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.516 mL	12.5802 mL	25.1604 mL
5 mM	0.5032 mL	2.516 mL	5.0321 mL
10 mM	0.2516 mL	1.258 mL	2.516 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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