

Tubulin polymerization-IN-76

Chemical Properties

CAS No. :

Formula: C₂₀H₂₁N₅S

Molecular Weight: 363.48

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	Tubulin polymerization-IN-76 (compound 20b) is a potent and orally active inhibitor of tubulin polymerization. It acts at the colchicine binding site to inhibit tubulin polymerization with an IC ₅₀ value of 2.505 μM, effectively disrupting the intracellular microtubule network and interfering with mitosis. Tubulin polymerization-IN-76 shows significant inhibitory effects on MGC-803 and HGC-27 cells, with IC ₅₀ values of 1.61 and 1.82 nM, respectively. It effectively suppresses colony formation and cell migration activities in these cell lines, inducing G2/M phase cell cycle arrest and apoptosis (Apoptosis). Furthermore, Tubulin polymerization-IN-76 exhibits broad-spectrum antiproliferative activity.
Targets(IC ₅₀)	Apoptosis, Microtubule Associated

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7512 mL	13.7559 mL	27.5118 mL
5 mM	0.5502 mL	2.7512 mL	5.5024 mL
10 mM	0.2751 mL	1.3756 mL	2.7512 mL
50 mM	0.055 mL	0.2751 mL	0.5502 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

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