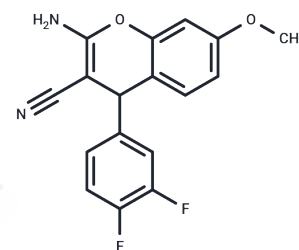


Tubulin polymerization-IN-2

Chemical Properties

CAS No. :	2873399-22-3
Formula:	C17H12F2N2O2
Molecular Weight:	314.29
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-2 is a powerful anticancer agent that targets β -tubulin, exhibiting an IC ₅₀ of 0.92 μ M. It demonstrates promising efficacy against a range of cancer cell lines including leukemia, non-small cell lung, renal, prostate, and breast cancers [1].
Targets(IC50)	Others, Microtubule Associated
In vitro	Tubulin polymerization-IN-2 (compound 2b) exhibits potent anti-cancer properties, effectively targeting epidermal carcinoma and breast carcinoma with IC ₅₀ values of 2.3 μ M (KB) and 2.2 μ M (BT-549), respectively [1]. At 0.342 μ M over 24 hours, it disrupts DNA synthesis or repair, causes S phase arrest in MCF-7 cells, and induces apoptosis by reducing Bax, APAF-1, and caspase-3 expression while increasing BCL-2 mRNA levels [1]. It also significantly inhibits β -tubulin polymerization with a K _i value of 0.09 μ M at concentrations of 0.01 to 10 μ M over one hour [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1818 mL	15.9089 mL	31.8177 mL
5 mM	0.6364 mL	3.1818 mL	6.3635 mL
10 mM	0.3182 mL	1.5909 mL	3.1818 mL
50 mM	0.0636 mL	0.3182 mL	0.6364 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

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