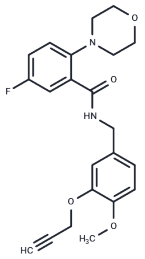
Data Sheet (Cat.No.T203394)

TargetMol

Tubulin Polymerization-IN-1 prodrug

Chemical Properties



CAS No. : 3033099-32-7

Formula: C22H23FN2O4

Molecular Weight: 398.43

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-1 prodrug (Compound 2b) is a microtubule polymerization inhibitor prodrug mediated by Pd. Developed from colchicine-binding site inhibitors (CBSIs), it aims to reduce toxicity and enhance targeted release. Compared to the parent compound, its cytotoxicity is decreased by 68.3 times, but can be in situ restored in the presence of Pd resin. Mechanistic studies show it retains the same antitumor activity as CBSIs. In vivo tests demonstrate that, once activated by Pd resin, it significantly suppresses tumor growth (63.2% inhibition rate). Tubulin Polymerization-IN-1 prodrug is a promising candidate for cancer research.
Targets(IC50)	Others,Microtubule Associated

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5099 mL	12.5493 mL	25.0985 mL
5 mM	0.502 mL	2.5099 mL	5.0197 mL
10 mM	0.251 mL	1.2549 mL	2.5099 mL
50 mM	0.0502 mL	0.251 mL	0.502 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.

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