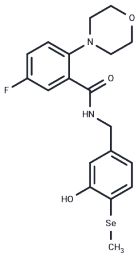
Data Sheet (Cat.No.T206452)

TargetMol

Antitumor agent-200

Chemical Properties



CAS No. : 3046118-64-0

Formula: C19H21FN2O3Se

Molecular Weight: 423.34

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	Antitumor agent-200 (Compound 2g) is a microtubule synthesis inhibitor that binds to the colchicine site on tubulin, causing G2/M cell cycle arrest and inducing reactive oxygen species (ROS) production. It demonstrates significant inhibitory activity against P-glycoprotein (P-gp) overexpressing cell lines MCF7/ADR and KBV200, with resistance indices (DRI) of 0.83 and 0.58, respectively. In an MCF-7 xenograft model, Antitumor agent-200 (at 25 mg/kg, administered intraperitoneally) achieves a 57.2% tumor growth inhibition rate. This compound is applicable for research in the field of cancer therapy.
Targets(IC50)	Microtubule Associated,P-gp

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3622 mL	11.8108 mL	23.6217 mL
5 mM	0.4724 mL	2.3622 mL	4.7243 mL
10 mM	0.2362 mL	1.1811 mL	2.3622 mL
50 mM	0.0472 mL	0.2362 mL	0.4724 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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