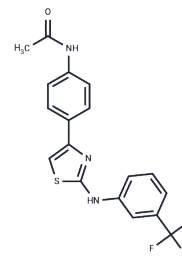


Tubulin inhibitor 49

Chemical Properties

CAS No. :	1023875-75-3
Formula:	C ₁₈ H ₁₄ F ₃ N ₃ O ₅
Molecular Weight:	377.38
Storage:	Store at low temperature, Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tubulin inhibitor 49 (Compound 18) is a tubulin polymerization inhibitor (IC ₅₀ = 48 μM) that disrupts the cellular microtubule network, arresting the cell cycle at G ₂ phase. It exhibits toxicity toward HeLa cells (IC ₅₀ = 8.8 μM).
Targets(IC ₅₀)	Cell Cycle Arrest, Microtubule Associated

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6498 mL	13.2492 mL	26.4985 mL
5 mM	0.530 mL	2.6498 mL	5.2997 mL
10 mM	0.265 mL	1.3249 mL	2.6498 mL
50 mM	0.053 mL	0.265 mL	0.530 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.

Reference

Mühlethaler T, et al., Rational Design of a Novel Tubulin Inhibitor with a Unique Mechanism of Action. Angew Chem Int Ed Engl. 2022 Jun 20;61(25):e202204052.

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