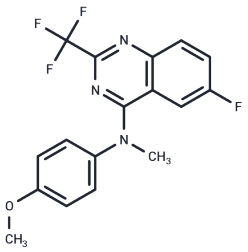
Data Sheet (Cat.No.T77647)

TargetMol

Tubulin polymerization-IN-43

Chemical Properties



CAS No. : 2773345-90-5

Formula: C17H13F4N3O

Molecular Weight: 351.3

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-43 is an inhibitor of tubulin polymerisation.Tubulin polymerization-IN-43 has multiple effects, disrupting the cellular microtubule network by targeting the colchicine locus and promoting cell cycle arrest and apoptosis in leukaemia cells. Tubulin polymerisation-IN-43 has multiple effects, promoting leukaemia cell cycle arrest in G2/M phase and apoptosis by targeting Colchicine sites to disrupt the cellular microtubule network.
Targets(IC50)	Apoptosis,Microtubule Associated

Solubility Information

Solubility	DMSO: 50 mg/mL (142.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8466 mL	14.2328 mL	28.4657 mL
5 mM	0.5693 mL	2.8466 mL	5.6931 mL
10 mM	0.2847 mL	1.4233 mL	2.8466 mL
50 mM	0.0569 mL	0.2847 mL	0.5693 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

Wu H, et al. Discovery of novel N-aryl-2-trifluoromethyl-quinazoline-4-amine derivatives as the inhibitors of tubulin polymerization in leukemia cells. Eur J Med Chem. 2023 Aug 5;256:115470.

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