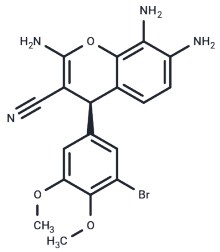
Data Sheet (Cat.No.T15012)

TargetMol

Crolibulin

Chemical Properties



CAS No. : 1000852-17-4

Formula: C18H17BrN4O3

Molecular Weight: 417.26

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Crolibulin (EPC2407) is an inhibitor of small molecule tubulin polymerization.
Targets(IC50)	Microtubule Associated
In vitro	Crolibulin demonstrates notable cytotoxic effects on HT-29 cells, achieving an IC50 value of 0.52 μM[2]. It is effective against a range of experimental tumors and significantly inhibits mitosis during the G2/M phase[2].

Solubility Information

Solubility	DMSO: 120 mg/mL (287.59 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3966 mL	11.9829 mL	23.9659 mL
5 mM	0.4793 mL	2.3966 mL	4.7932 mL
10 mM	0.2397 mL	1.1983 mL	2.3966 mL
50 mM	0.0479 mL	0.2397 mL	0.4793 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.

Reference

Kalmuk J, et al. Multimodal imaging guided preclinical trials of vascular targeting in prostate cancer. Oncotarget. 2015 Sep 15;6(27):24376-92.

Zhai X, et al. Discovery and Optimization of Novel 5-Indolyl-7-arylimidazo[1,2-a]pyridine-8-carbonitrile Derivatives as Potent Antitubulin Agents Targeting Colchicine-binding Site. Sci Rep. 2017 Feb 27;7:43398.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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