Data Sheet (Cat.No.T23817)

TargetMol

BPTQ

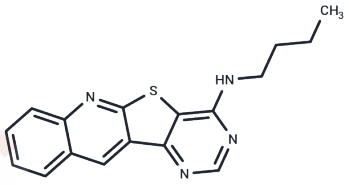
Chemical Properties

CAS No. : 1802665-43-5

Formula: C17H16N4S

Molecular Weight: 308.4

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	BPTQ is a typical intercalator of DNA that acts by inducing a dose-dependent inhibitory effect on the proliferation of cancer cells by arresting cells at the S and G2/M phase.
Targets(IC50)	Apoptosis,Bcl-2 Family,Others,Caspase,Chk,VEGFR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2425 mL	16.2127 mL	32.4254 mL
5 mM	0.6485 mL	3.2425 mL	6.4851 mL
10 mM	0.3243 mL	1.6213 mL	3.2425 mL
50 mM	0.0649 mL	0.3243 mL	0.6485 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

Rohit Kumar H, Kumar CS, Kiran Kumar HN, Advi Rao GM. Inhibition of protein kinases by anticancer DNA intercalator, 4-butylaminopyrimido[4',5':4,5]thieno(2,3-b)quinoline. Acta Pharm Sin B. 2017 May;7(3):303-310. doi: 10.1016/j.apsb.2017.01.001. Epub 2017 Mar 7. PubMed PMID: 28540166; PubMed Central PMCID: PMC5430831.

RohitKumar HG, Asha KR, Raghavan SC, Advi Rao GM. DNA intercalative 4-butylaminopyrimido[4',5':4,5]thieno(2,3-b)quinoline induces cell cycle arrest and apoptosis in leukemia cells. Cancer Chemother Pharmacol. 2015 Jun;75(6):1121-33. doi: 10.1007/s00280-015-2735-6. Epub 2015 Mar 29. PubMed PMID: 25819915.

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