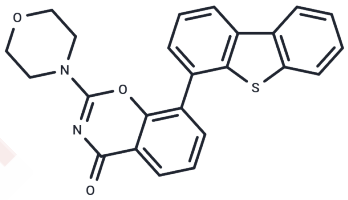
Data Sheet (Cat.No.T15789)

TargetMol

LTURM34

Chemical Properties



CAS No. : 1879887-96-3

Formula: C24H18N2O3S

Molecular Weight: 414.48

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	LTURM34 is an inhibitor of DNA-PK with IC50 of 34 nM. LTURM34 displays effective antiproliferative activity in a wide range of tumor cell lines. LTURM34 shows 170-fold selectivity for DNA-PK over PI3K .
Targets(IC50)	DNA-PK,PI3K,PI4K
In vitro	LTURM34 is more consistently active against the selected cell lines (11 of 16), but at best shows 54% inhibition against the HOP-92 non-small cell lung cancer line. LTURM34 displays effective inhibition of DNA-PK with excellent selectivity over the Class I PI3K isoforms (IC50s: 5.8 and 8.5 μM for PI3K β and δ, respectively) .

Solubility Information

Solubility	DMSO: 60 mg/mL (144.76 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.96 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4127 mL	12.0633 mL	24.1266 mL
5 mM	0.4825 mL	2.4127 mL	4.8253 mL
10 mM	0.2413 mL	1.2063 mL	2.4127 mL
50 mM	0.0483 mL	0.2413 mL	0.4825 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

Morrison R, et al. Synthesis, structure elucidation, DNA-PK and PI3K and anti-cancer activity of 8- and 6-aryl-substituted-1-3-benzoxazines. Eur J Med Chem. 2016 Mar 3;110:326-39.