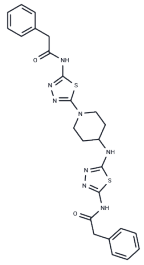
Data Sheet (Cat.No.T17206)

TargetMol
YOUR TARGET MOLECULES

UPGL00004

Chemical Properties



CAS No. : 1890169-95-5

Formula: C25H26N8O2S2

Molecular Weight: 534.66

Appearance: no data available

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

Biological Description

Description	UPGL00004 is a potent glutaminase C (GAC) inhibitor with an IC50 of 29 nM. Kd of UPGL00004 for GAC was 27 nM. UPGL00004 has a strong inhibitory effect on the proliferation of highly aggressive triple negative breast cancer cell lines.
Targets(IC50)	Others,Glutaminase
In vitro	UPGL00004 inhibits MDA-MB-231, HS578T, and TSE cells (IC50s: 70, 129, and 262 nM, respectively).[1]
In vivo	In a triple-negative breast cancer patient-derived tumor graft model, the combination of UPGL00004 (1 mg/kg body weight) and Bevacizumab (2.5 mg/kg body weight) via intraperitoneal injection completely prevent any detectable increase in tumor size.[1]

Solubility Information

Solubility	DMSO: 112.5 mg/mL (210.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8703 mL	9.3517 mL	18.7035 mL
5 mM	0.3741 mL	1.8703 mL	3.7407 mL
10 mM	0.187 mL	0.9352 mL	1.8703 mL
50 mM	0.0374 mL	0.187 mL	0.3741 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

Huang Q, et al. Characterization of the interactions of potent allosteric inhibitors with glutaminase C, a key enzyme in cancer cell glutamine metabolism. J Biol Chem. 2018 Mar 9;293(10):3535-3545.

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