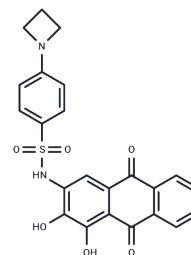


HKB99

Chemical Properties

CAS No. :	2414908-90-8
Formula:	C ₂₃ H ₁₈ N ₂ O ₆ S
Molecular Weight:	450.46
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	HKB99 is a mutant inhibitor of phosphoglycerate mutase 1 (PGAM1), which inhibits the growth and metastasis of non-small cell lung cancer. HKB99 acts synergistically with EGFR inhibitors and assists in the killing of tumors by EGFR inhibitors. HKB99 promotes oxidative stress, which induces alterations in a variety of signaling pathways. HKB99 can be used in the study of metabolism-related diseases. HKB99 can be used in the study of metabolism-related diseases. HKB99 can be used in the study of metabolism-related diseases.
Targets(IC50)	Apoptosis, ERK, Akt, Phosphatase, ROS

Solubility Information

Solubility	DMSO: 100 mg/mL (222 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.220 mL	11.0998 mL	22.1995 mL
5 mM	0.444 mL	2.220 mL	4.4399 mL
10 mM	0.222 mL	1.110 mL	2.220 mL
50 mM	0.0444 mL	0.222 mL	0.444 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

Liang Q, et al. HKB99, an allosteric inhibitor of phosphoglycerate mutase 1, suppresses invasive pseudopodia formation and upregulates plasminogen activator inhibitor-2 in erlotinib-resistant non-small cell lung cancer cells. *Acta Pharmacol Sin.* 2021 Jan;42(1):115-119.

Huang K, et al. A Novel Allosteric Inhibitor of Phosphoglycerate Mutase 1 Suppresses Growth and Metastasis of Non-Small-Cell Lung Cancer. *Cell Metab.* 2019 Dec 3;30(6):1107-1119.e8.

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