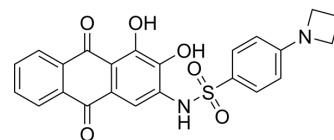


HKB99

Cat. No.:	HY-148510		
CAS No.:	2414908-90-8		
Molecular Formula:	C ₂₃ H ₁₈ N ₂ O ₆ S		
Molecular Weight:	450.46		
Target:	Phosphatase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (277.49 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2200 mL	11.0998 mL	22.1995 mL
	5 mM	0.4440 mL	2.2200 mL	4.4399 mL
	10 mM	0.2220 mL	1.1100 mL	2.2200 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

HKB99 is an allosteric inhibitor of phosphoglycerate mutase 1 (PGAM1). HKB99 inhibits the formation of invasive pseudopodia and increases the level of PAI-2 in vitro. HKB99 increases the oxidative stress, activates JNK/c-Jun and suppresses AKT and ERK. HKB99 can be used for the research of non-small-cell lung cancer (NSCLC)^{[1][2]}.

REFERENCES

- [1]. 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.
- [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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