UPGL00004

Cat. No.:	HY-119377			
CAS No.:	1890169-95-5			
Molecular Formula:	$C_{25}H_{26}N_8O_2S_2$			
Molecular Weight:	534.66			
Target:	Glutaminase			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8703 mL	9.3517 mL	18.7035 ml
	5 mM	0.3741 mL	1.8703 mL	3.7407 mL
	10 mM	0.1870 mL	0.9352 mL	1.8703 mL

BIOLOGICAL ACTIVITY		
Description	UPGL00004 is a potent allosteric glutaminase C (GAC) inhibitor (IC ₅₀ =29 nM; K _d =27 nM). UPGL00004 strongly inhibits the proliferation of highly aggressive triple-negative breast cancer cell lines ^[1] .	
IC₅₀ & Target	IC50: 29 nM (Glutaminase C) ^[1] Kd: 27 nM (Glutaminase C) ^[1]	
In Vitro	UPGL00004 inhibits MDA-MB-231, HS578T and TSE cells with IC ₅₀ s of 70, 129, and 262 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	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 in a triple-negative breast cancer patient-derived tumor graft model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

Product Data Sheet

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REFERENCES

[1]. 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.

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

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