Proteins

Product Data Sheet

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

-80°C In solvent 2 years

> -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO: 125 mg/mL (233.79 mM; Need ultrasonic)

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

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

BIOL	α CI	~ 1	ΛCTI	MTV
вил	10/61	LAI	$\Delta U = I$	$\mathbf{v} - \mathbf{v}$

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] .
IC ₅₀ & 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.

Huang Q, et al. Characteri 8 Mar 9;293(10):3535-3545		t allosteric inhibitors with gluta	minase C, a key enzyme in cancer cell gl	utamine metabolism. J Biol Che
	Caution: Product has not b	een fully validated for medi	cal applications. For research use o	nly.
	Caution: Product has not b	een fully validated for medi Fax: 609-228-5909	cal applications. For research use o E-mail: tech@MedChemExpress.c	
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