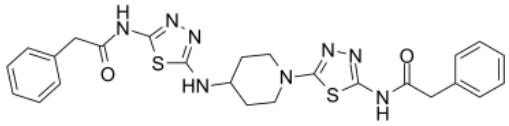
Product Data Sheet

Product Name: UPGL00004
Cat. No.: GC61365

Chemical Properties

Cas. No.	1890169-95-5		
SMILES	O=C(NC1=NN=C(N2CCC(NC3=NN=C(NC(CC4=CC=CC=C4)=O)S3)CC2)S1)CC5=CC=CC=C5		
Formula	$C_{25}H_{26}N_8O_2S_2$	M.Wt	534.66
Solubility	DMSO: 125 mg/mL (233.79 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

UPGL00004 is a potent allosteric glutaminase C (GAC) inhibitor (IC50=29 nM; Kd=27 nM). UPGL00004 strongly inhibits the proliferation of highly aggressive triple-negative breast cancer cell lines[1].

UPGL00004 inhibits MDA-MB-231, HS578T and TSE cells with IC50s of 70, 129, and 262 nM, respectively[1].

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

[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.

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