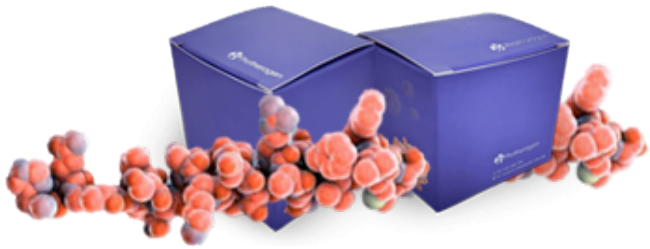
Protheragen
Obesity



UPGL00004

Cat. No.:	OB0225WX-2778
Appearance:	Solid
Purity:	≥98%
Identity:	Confirmed by NMR, and HPLC.
Size:	2 mg; 5 mg; 25 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	UPGL00004 is a potent small molecule inhibitor of glutaminase C (GAC) with an IC 50 of 29 nM, demonstrating high specificity for GAC over the GLS2 isoform.
Synonym	1890169-95-5; 2-Phenyl-*N*-[5-[[1-[5-[(2-phenylacetyl)amino]-1,3,4-thiadiaz ol-2-yl]piperidin-4-yl]amino]-1,3,4-thiadiazol-2-yl]acetamide; 2-phenyl-*N* -{5-[4-({5-[(phenylacetyl)amino]-1,3,4-thiadiazol-2-yl}amino)piperidin-1-yl]-1,3 ,4-thiadiazol-2-yl}acetamide; 2-phenyl-*N*-(5-(4-((5-(2-phenylacetamido)-1, 3,4-thiadiazol-2-yl)amino)piperidin-1-yl)-1,3,4-thiadiazol-2-yl)acetamide; 2-Phe nyl-*N*-[5-({1-[5-(2-phenylacetamido)-1,3,4-thiadiazol-2-yl]piperidin-4-yl} amino)-1,3,4-thiadiazol-2-yl]acetamide
CAS No.	1890169-95-5
Compound CID	121256411
Formula	$C_{25}H_{26}N_8O_2S_2$
Formula Weight	534.66

Specification

IUPAC Name	2-Phenyl-*N*-[5-[[1-[5-[(2-phenylacetyl)amino]-1,3,4-thiadiazol-2-yl]piperi din-4-yl]amino]-1,3,4-thiadiazol-2-yl]acetamide
InChI	InChI=1S/C25H26N8O2S2/c34-20(15-17-7-3-1-4-8-17)27-23-30-29-22(36-23)26-19-11-13-33(14-12-19)25-32-31-24(37-25)28-21(35)16-18-9-5-2-6-10-18/h1-10,19H,11-16H2,(H,26,29)(H,27,30,34)(H,28,31,35)

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
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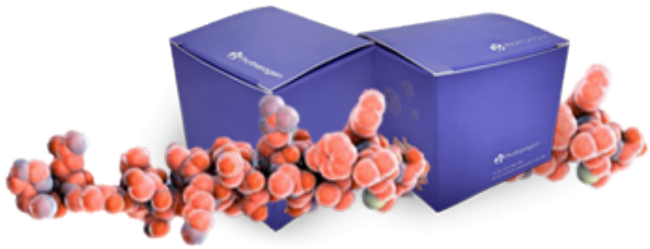

InChI Key	MRYCNTHLPRENBA-UHFFFAOYSA-N
SMILES string	C1CN(CCC1NC2=NN=C(S2)NC(=O)CC3=CC=CC=C3)C4=NN=C(S4)NC(=O)CC5=CC=CC=C5
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	UPGL00004 is used in metabolic oncology research as a potent and selective gluta minase (GLS1) inhibitor to investigate the disruption of glutamine metabolism an d the inhibition of growth in various cancer cell lines.

Library Information

Target	Glutaminase
Receptor	Glutaminase
Pathways	Proteases
Plate Number	L6700-11
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	25 mg/mL; 46.76 mM
ALogP	3.091
HBA_Count	6
HBD_Count	3
Rotatable Bond	9

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