

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

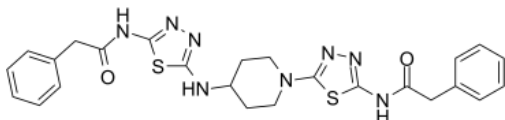
Formula C25H26N8O2S2 M.Wt 534.66

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 sizes: ship with RT, or blue ice upon request.

Structure



Background

UPGL00004 is a potent allosteric glutaminase C (GAC) inhibitor (IC₅₀=29 nM; K_d=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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA