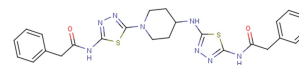


UPGL00004

Chemical Properties

CAS No.: 1890169-95-5
Formula: C₂₅H₂₆N₈O₂S₂
Molecular Weight: 534.66
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

| | |
|----------------------------|--|
| Description | UPGL00004 inhibits the proliferation of highly aggressive triple-negative breast cancer cell lines. UPGL00004 is an effective allosteric glutaminase C inhibitor (IC ₅₀ =29 nM; K _d =27 nM). |
| Targets(IC ₅₀) | Glutaminase C: (K _d) 27 nM |
| In vitro | UPGL00004 inhibits MDA-MB-231, HS578T, and TSE cells (IC ₅₀ s: 70, 129, and 262 nM, respectively). |
| In vivo | In a triple-negative breast cancer patient-derived tumor graft model, 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 [1]. |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 125 mg/mL (233.79 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|-----------|
| 1 mM | 1.87 mL | 9.352 mL | 18.703 mL |
| 5 mM | 0.374 mL | 1.87 mL | 3.741 mL |
| 10 mM | 0.187 mL | 0.935 mL | 1.87 mL |
| 50 mM | 0.037 mL | 0.187 mL | 0.374 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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