

AZ-GHS-22

Chemical Properties

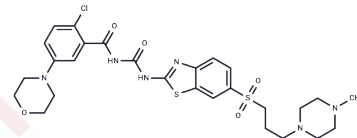
CAS No. : 1143020-91-0

Formula: C₂₇H₃₃ClN₆O₅S₂

Molecular Weight: 621.17

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AZ-GHS-22 is an inverse agonist of the growth hormone secretagogue receptor 1a (GHS-R1a), which is also known as the ghrelin receptor. It binds to GHS-R1a with an IC ₅₀ value of 0.77 nM. AZ-GHS-22 decreases food intake in mice by 54% in the first two hours after administration of a 100 mg/kg dose.
Targets(IC ₅₀)	Others, GHSR

Solubility Information

Solubility	0.1 M HCl: 25 mg/mL (40.25 mM), Sonication is recommended. DMSO: 50 mg/mL (80.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6099 mL	8.0493 mL	16.0987 mL
5 mM	0.322 mL	1.6099 mL	3.2197 mL
10 mM	0.161 mL	0.8049 mL	1.6099 mL
50 mM	0.0322 mL	0.161 mL	0.322 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

McCoull, W., Barton, P., Brown, A.J.H., et al. Identification, optimization, and pharmacology of acylurea GHS-R1a inverse agonists]. Med. Chem. 57(14)6128-6140(2014)

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