

NCGC00188636

Chemical Properties

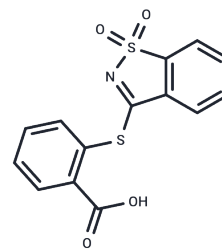
CAS No. : 1039980-33-0

Formula: C₁₄H₉NO₄S₂

Molecular Weight: 319.36

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	NCGC00188636 (also known as DBS) is a novel covalent pyruvate kinase (PYK) inhibitor. It exerts its effect by binding to the active site of pyruvate kinase and blocking nucleotide binding. The compound demonstrates potent inhibitory activity against <i>Leishmania mexicana</i> pyruvate kinase (LmPYK) and is used to investigate energy metabolism across various organisms and cell types.
Targets(IC50)	PKM

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1313 mL	15.6563 mL	31.3126 mL
5 mM	0.6263 mL	3.1313 mL	6.2625 mL
10 mM	0.3131 mL	1.5656 mL	3.1313 mL
50 mM	0.0626 mL	0.3131 mL	0.6263 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

Morgan H P, Walsh M J, Blackburn E A, et al. A new family of covalent inhibitors block nucleotide binding to the active site of pyruvate kinase[J]. *Biochemical Journal*, 2012, 448(1): 67-72.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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