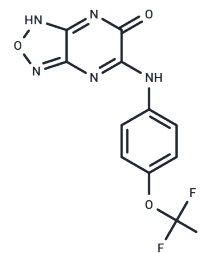


SHS4121705

Chemical Properties

CAS No. : 2379550-82-8
 Formula: C₁₁H₆F₃N₅O₃
 Molecular Weight: 313.19
 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	SHS4121705 is an orally bioavailable mitochondrial uncoupler. It increases oxygen consumption rate in L6 rat myoblast cells with an EC ₅₀ value of 4.3 μM. SHS4121705 (25 mg/kg per day in the diet) reduces hepatic steatosis, liver triglyceride levels, and plasma alanine aminotransferase (ALT) levels in Stelic animal model (STAM) mice, a model of non-alcoholic steatohepatitis (NASH).
Targets(IC ₅₀)	Others, Mitochondrial Metabolism

Solubility Information

Solubility	Ethanol: 30 mg/mL (95.79 mM), Sonication is recommended. DMSO: 25 mg/mL (79.82 mM), Sonication is recommended. DMF: 10 mg/mL (31.93 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	3.1929 mL	15.9647 mL	31.9295 mL
5 mM	0.6386 mL	3.1929 mL	6.3859 mL
10 mM	0.3193 mL	1.5965 mL	3.1929 mL
50 mM	0.0639 mL	0.3193 mL	0.6386 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

Salamoun, J.M., Garcia, C.J., Hargett, S.R., et al. 6-Amino[1,2,5]oxadiazolo[3,4-b]pyrazin-5-ol derivatives as efficacious mitochondrial uncouplers in STAM mouse model of nonalcoholic steatohepatitis. *Med. Chem.* 63(11) 6203-6224(2020)

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