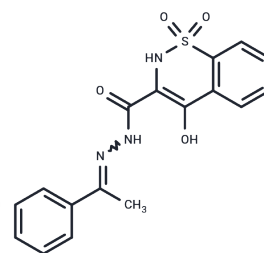


Antidiabetic agent 5

Chemical Properties

CAS No. :	2152667-21-3
Formula:	C17H15N3O4S
Molecular Weight:	357.38
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	Compound S1 (antidiabetic agent 5) is an antidiabetic agent that effectively inhibits the enzymes α -glucosidase and α -amylase, demonstrating IC50 values of 3.91 μ M and 8.89 μ M, respectively. It reduces sugar levels and holds potential for type-II diabetes research [1].
Targets(IC50)	Glucosidase,Amylase,glycosidase
In vivo	The antidiabetic agent 5 (3.9, 7.8 mg/kg) effectively lowers blood glucose levels in diabetic BALB/c mice (26-33 g) [1]. Administration at 3.9 and 7.8 mg/kg resulted in reduced blood sugar levels (110-115 mg/dL), increased insulin levels (25-30 μ M/L), as well as decreased cholesterol (85 mg/dL) and creatinine (0.6 mg/dL) levels [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7981 mL	13.9907 mL	27.9814 mL
5 mM	0.5596 mL	2.7981 mL	5.5963 mL
10 mM	0.2798 mL	1.3991 mL	2.7981 mL
50 mM	0.056 mL	0.2798 mL	0.5596 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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