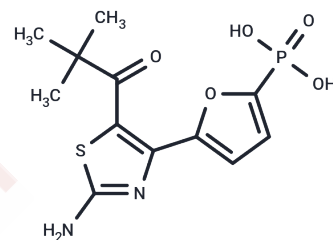


MB-07729

Chemical Properties

CAS No. : 882755-95-5
 Formula: C₁₂H₁₅N₂O₅PS
 Molecular Weight: 330.3
 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	MB-07729 is a potent non-competitive inhibitor of fructose-1,6-bisphosphate with IC ₅₀ values of 189, 121 and 31 nM in rat, monkey and human, respectively, for the study of diabetes.
Targets(IC ₅₀)	Phosphatase
In vitro	MB-07729 is a potent fructose 1,6-bisphosphatase (FBPase) noncompetitive inhibitor with IC ₅₀ values of 31, 121, and 189 nM for human, monkey, and rat, respectively.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (151.38 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	3.0276 mL	15.1378 mL	30.2755 mL
5 mM	0.6055 mL	3.0276 mL	6.0551 mL
10 mM	0.3028 mL	1.5138 mL	3.0276 mL
50 mM	0.0606 mL	0.3028 mL	0.6055 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

Van Poelje P D, et al. MB07803, a prodrug of a second generation fructose-1, 6-bisphosphatase inhibitor, lowers blood glucose in diabetic rodents and in cynomolgus monkeys.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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