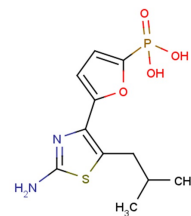


MB05032

Chemical Properties

CAS No.:	261365-11-1
Formula:	C ₁₁ H ₁₅ N ₂ O ₄ PS
Molecular Weight:	302.29
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	MB05032 targeted the AMP binding site of fructose 1,6-bisphosphatase (FBPase), which is a special and efficacious inhibitor of GNG.
Targets(IC ₅₀)	Human Liver FBPase: 16 nM
In vivo	In young ZDF rats with mild diabetes and aged ZDF rats, MB06322 (3/6-300 mg/kg (young/aged Zucker diabetic fatty (ZDF) rats); p.o.; once) causes dose-dependent glucose lowering with overt diabetes [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (165.40 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.308 mL	16.54 mL	33.081 mL
5 mM	0.662 mL	3.308 mL	6.616 mL
10 mM	0.331 mL	1.654 mL	3.308 mL
50 mM	0.066 mL	0.331 mL	0.662 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Erion MD, et al. MB06322 (CS-917): A potent and selective inhibitor of fructose 1,6-bisphosphatase for controlling gluconeogenesis in type 2 diabetes. Proc Natl Acad Sci U S A. 2005 May 31;102(22):7970-5.
- Zhang Y, et al. Fructose-1,6-bisphosphatase regulates glucose-stimulated insulin secretion of mouse pancreatic beta-cells. Endocrinology. 2010 Oct;151(10):4688-95.

Inhibitors · Natural Compounds · Compound Libraries

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