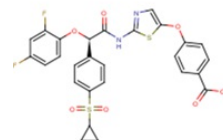


Glucokinase activator 1

Chemical Properties

CAS No.:	1328987-85-4
Formula:	C ₂₇ H ₂₀ F ₂ N ₂ O ₇ S ₂
Molecular Weight:	586.58
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Glucokinase activator 1 is a liver-directed glucokinase activator (EC ₅₀ : 34 nM).
Targets(IC ₅₀)	Glucokinase: (EC ₅₀)34 nM
In vivo	The predominant liver-directed tissue distribution of Glucokinase activator 1 ensures a good safety window with respect to hypoglycemia over a 10-fold dose range. Glucokinase activator 1 (3 to 300 mg/kg, oral, 180 minutes) shows a dose-dependent improvement in glucose excursion in oGTT in a DIO mouse model of T2D.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.705 mL	8.524 mL	17.048 mL
5 mM	0.341 mL	1.705 mL	3.41 mL
10 mM	0.17 mL	0.852 mL	1.705 mL
50 mM	0.034 mL	0.17 mL	0.341 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

1. Deshpande AM, et al. Discovery of liver-directed glucokinase activator having anti-hyperglycemic effect without hypoglycemia. Eur J Med Chem. 2017 Jun 16;133:268-286.

Inhibitors · Natural Compounds · Compound Libraries

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