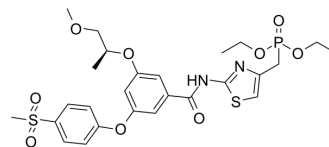


Glucokinase activator 3

Cat. No.:	HY-144287		
CAS No.:	1001417-92-0		
Molecular Formula:	C ₂₆ H ₃₃ N ₂ O ₉ PS ₂		
Molecular Weight:	612.65		
Target:	Glucokinase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (163.23 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.6323 mL	8.1613 mL	16.3225 mL	
5 mM	0.3265 mL	1.6323 mL	3.2645 mL	
10 mM	0.1632 mL	0.8161 mL	1.6323 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Glucokinase activator 3 is a potent and full Glucokinase (GK) activator with an AC₅₀ of 38 nM. Glucokinase activator 3 has the potential for the research of type 2 diabetes^[1].

IC₅₀ & Target

AC₅₀: 38 nM (GK)^[1]

REFERENCES

[1]. Shi Y, et al. Discovery of a Partial Glucokinase Activator Clinical Candidate: Diethyl ((3-(3-((5-(Azetidine-1-carbonyl)pyrazin-2-yl)oxy)-5-isopropoxybenzamido)-1H-pyrazol-1-yl)methyl)phosphonate (BMS-820132). J Med Chem. 2022, 65(5):4291-4317.

Caution: Product has not been fully validated for medical applications. For research use only.

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