

PF-04937319

Chemical Properties

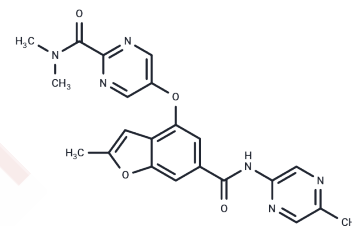
CAS No. : 1245603-92-2

Formula: C₂₂H₂₀N₆O₄

Molecular Weight: 432.43

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PF-04937319 is an activator of glucokinase (EC ₅₀ =154.4 μM). PF-04937319 maintains glucose-lowering efficacy while mitigating the risk of hypoglycemia observed with many other glucokinase activators. PF-04937319 can be used in research on the treatment of type 2 diabetes mellitus.
Targets(IC ₅₀)	Glucokinase

Solubility Information

Solubility	DMSO: 95 mg/mL (219.69 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	2.3125 mL	11.5626 mL	23.1251 mL
5 mM	0.4625 mL	2.3125 mL	4.625 mL
10 mM	0.2313 mL	1.1563 mL	2.3125 mL
50 mM	0.0463 mL	0.2313 mL	0.4625 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.

Reference

Dzyurkevich MS, et al. Pyridoxine dipharmacophore derivatives as potent glucokinase activators for the treatment of type 2 diabetes mellitus. Sci Rep. 2017 Nov 22;7(1):16072.

Amin NB, et al. Two dose-ranging studies with PF-04937319, a systemic partial activator of glucokinase, as add-on therapy to metformin in adults with type 2 diabetes. Diabetes Obes Metab. 2015 Aug;17(8):751-9.

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