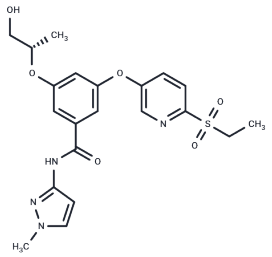
Data Sheet (Cat.No.T12056)

TargetMol

MK-0941 free base

Chemical Properties



CAS No. : 752240-01-0

Formula: C21H24N4O6S

Molecular Weight: 460.5

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	MK-0941 free base is an orally active glucokinase activator with potent glucose-lowering activity, making it a potential therapeutic agent for type 2 diabetes.
Targets(IC50)	Glucokinase
In vivo	MK-0941 free base treatment reduced blood glucose significantly in db/db diabetic mouse[1].

Solubility Information

Solubility	DMSO: 9 mg/mL (19.54 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1716 mL	10.8578 mL	21.7155 mL
5 mM	0.4343 mL	2.1716 mL	4.3431 mL
10 mM	0.2172 mL	1.0858 mL	2.1716 mL
50 mM	0.0434 mL	0.2172 mL	0.4343 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

Eiki J, et al. Pharmacokinetic and pharmacodynamic properties of the glucokinase activator MK-0941 in rodent models of type 2 diabetes and healthy dogs. Mol Pharmacol. 2011 Dec;80(6):1156-65.
Meininger GE, et al. Effects of MK-0941, a novel glucokinase activator, on glycemic control in insulin-treated patients with type 2 diabetes. Diabetes Care. 2011 Dec;34(12):2560-6.

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