MK-0941

Cat. No.:	HY-19843	,
CAS No.:	1137916-97-2	N N
Molecular Formula:	C ₂₂ H ₂₈ N ₄ O ₉ S ₂	ONH
Molecular Weight:	556.61	O S
Target:	Glucokinase	HO
Pathway:	Metabolic Enzyme/Protease	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	—S-ОН Ю

SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.7966 mL	8.9830 mL	17.9659 ml		
		5 mM	0.3593 mL	1.7966 mL	3.5932 mL		
		10 mM	0.1797 mL	0.8983 mL	1.7966 mL		
	Please refer to the sc	lubility information to select the ap	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.17 mg/mL (3.90 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (3.90 mM); Clear solution					
	3. Add each solvent	 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (3.90 mM); Clear solution 					

BIOLOGICAL ACTIV	ΊΤΥ
Description	MK-0941 is a potent, orally active and allosteric glucokinase activator, with EC ₅₀ s of 240 and 65 nM for recombinan glucokinase in the presence of 2.5 and 10 mM glucose, respectively. MK-0941 has potential in the treatment of type diabetes ^[1] .
IC ₅₀ & Target	EC50: 240 nM (Recombinant human glucokinase, 2.5 mM glucose), 65 nM (Recombinant human glucokinase, 10 mM [1]

REFERENCES

Product Data Sheet



[1]. 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.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA