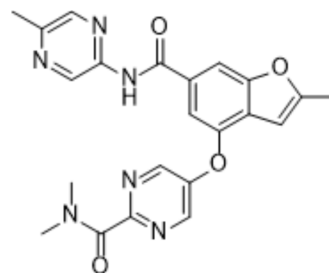


Nerigliatin

Cat. No.:	HY-108328		
CAS No.:	1245603-92-2		
Molecular Formula:	C ₂₂ H ₂₀ N ₆ O ₄		
Molecular Weight:	432.43		
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 (231.25 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3125 mL	11.5626 mL	23.1251 mL
		5 mM	0.4625 mL	2.3125 mL	4.6250 mL
10 mM		0.2313 mL	1.1563 mL	2.3125 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Nerigliatin (PF-04937319) is a glucokinase activator (GKA) with EC ₅₀ value of 154.4 μM, one of the most promising strategies for the treatment of type 2 diabetes mellitus ^[1] . Nerigliatin is designed to maintain glucose-lowering efficacy while mitigating the risk of hypoglycaemia observed with many other GKAs ^[2] .
IC ₅₀ & Target	EC ₅₀ : 154.4 μM (GSA) (PF-04937319) ^[1]

REFERENCES

[1]. 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.

[2]. 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.

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