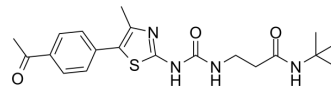


NVS-PI3-4

Cat. No.:	HY-133907		
CAS No.:	941580-60-5		
Molecular Formula:	C ₂₀ H ₂₆ N ₄ O ₃ S		
Molecular Weight:	402.51		
Target:	PI3K		
Pathway:	PI3K/Akt/mTOR		
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 : 250 mg/mL (621.10 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4844 mL	12.4221 mL	24.8441 mL
		5 mM	0.4969 mL	2.4844 mL	4.9688 mL
10 mM		0.2484 mL	1.2422 mL	2.4844 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.17 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.17 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.17 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	NVS-PI3-4 is a specific PI3Ky inhibitor. NVS-PI3-4 can be used for the research of allergies, inflammatory and cancer diseases [1][2].
IC ₅₀ & Target	PI3Ky
In Vitro	NVS-PI3-4 shows an exquisite cellular selectivity for PI3Ky. NVS-PI3-4 reduces IgE/antigen-mediated phosphorylation of PKB/Akt in p110δ ^{DA} . NVS-PI3-4 (5 μM; 30 minutes; BMMCs) is not accumulate in specifically in mast cells ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bruce I, et al. Development of isoform selective PI3-kinase inhibitors as pharmacological tools for elucidating the PI3K pathway. *Bioorg Med Chem Lett*. 2012;22(17):5445-5450.
- [2]. Collmann E, et al. Transient targeting of phosphoinositide 3-kinase acts as a roadblock in mast cells' route to allergy. *J Allergy Clin Immunol*. 2013;132(4):959-968.
-

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