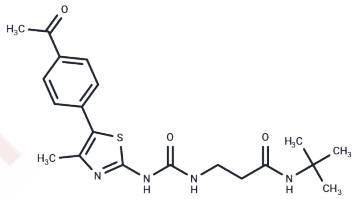
Data Sheet (Cat.No.T36315)

TargetMol

NVS-PI3-4

Chemical Properties



CAS No. : 941580-60-5

Formula: C20H26N4O3S

Molecular Weight: 402.51

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

Biological Description

Description	NVS-PI3-4 is a highly selective inhibitor of the enzyme PI3Kγ. It is specifically designed for use in scientific investigations related to allergies, inflammatory conditions, and cancerous diseases[1][2].
Targets(IC50)	Others,PI3K
In vitro	NVS-PI3-4 demonstrates high cellular selectivity for PI3Kγ, reduces IgE/antigen-mediated phosphorylation of PKB/Akt in p110δDA, and does not specifically accumulate in mast cells (5 μM; 30 minutes; BMMCs)[2].

Solubility Information

Solubility	DMSO: 250 mg/mL (621.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (8.2 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0497 mL	0.2484 mL	0.4969 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

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.
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.