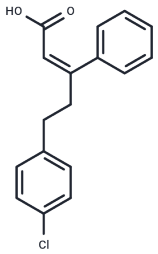
Data Sheet (Cat.No.T3163)

PS 48

Chemical Properties



CAS No. : 1180676-32-7

Formula: C17H15ClO2

Molecular Weight: 286.75

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	PS 48 has been shown to be a PKB Kinase (PDK1) activator (Kd: 10.3 μM). This compound selectively binds to the PIF-binding pocket of PKB Kinase (PDK1).
Targets(IC50)	PDK

Solubility Information

Solubility	Ethanol: 50 mM,Sonication is recommended. DMSO: 250 mg/mL (871.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (34.87 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (34.87 mM),Solution. *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	3.4874 mL	17.4368 mL	34.8736 mL
5 mM	0.6975 mL	3.4874 mL	6.9747 mL
10 mM	0.3487 mL	1.7437 mL	3.4874 mL
50 mM	0.0697 mL	0.3487 mL	0.6975 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

Han F, et al. Triptolide Suppresses Glomerular Mesangial Cell Proliferation in Diabetic Nephropathy Is Associated with Inhibition of PDK1/Akt/mTOR Pathway. Int J Biol Sci. 2017 Sep 21;13(10):1266-1275.
Hindie V, et al. Structure and allosteric effects of low-molecular-weight activators on the protein kinase PDK1. Nat Chem Biol. 2009 Oct;5(10):758-64.

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