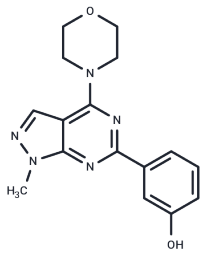
Data Sheet (Cat.No.T25399)

TargetMol

ETP-45658

Chemical Properties



CAS No. : 1198357-79-7

Formula: C16H17N5O2

Molecular Weight: 311.34

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	ETP-45658 (ETP45658) is a PI 3-kinase inhibitor (IC50 values are 22, 30, 129 and 710 nM for PI 3-Kα, PI 3-Kδ, PI 3-Kβ and PI 3-Kγ respectively). Also inhibits DNA-PK and mTOR (IC50 values are 70.6 and 152 nM respectively).
Targets(IC50)	DNA-PK,mTOR,PI3K

Solubility Information

Solubility	DMSO: 60 mg/mL (192.72 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: 2 mg/mL (6.42 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	3.2119 mL	16.0596 mL	32.1192 mL
5 mM	0.6424 mL	3.2119 mL	6.4238 mL
10 mM	0.3212 mL	1.606 mL	3.2119 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

Maswadeh et al (2015) Coadministration of dox. and etop. loaded in camel milk phospholipids liposomes showed increased antitumor activity in a murine model. PLoS One 10 2847 PMID: 25926730

Link W, Oyarzabal J, Serelde BG, Albarran MI, Rabal O, Cebriá A, Alfonso P, Fominaya J, Renner O, Peregrina S, Soilán D, Ceballos PA, Hernández AI, Lorenzo M, Pevarello P, Granda TG, Kurz G, Carnero A, Bischoff JR. Chemical interrogation of FOXO3a nuclear translocation identifies potent and selective inhibitors of phosphoinositide 3-kinases. J Biol Chem. 2009 Oct 9;284(41):28392-400. doi: 10.1074/jbc.M109.038984. Epub 2009 Aug 18. PubMed PMID: 19690175; PubMed Central PMCID: PMC2788888.

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