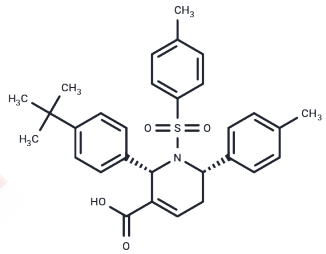
Data Sheet (Cat.No.T24586)

TargetMol

P11

Chemical Properties



CAS No. : 942285-55-4

Formula: C30H33NO4S

Molecular Weight: 503.65

Storage: Store at low temperature
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	P11 is a selective platelet-activating factor acetylhydrolase (PAFAH1b2 and PAFAH1b3) inhibitor, blocking PAFAH1b2/3-mediated hydrolysis of PAF to lysophosphatidic acid, used to study PAFAH1b2/3 cellular functions.
Targets(IC50)	Others,Phospholipase
In vitro	P11 showed particularly good efficacy against PAFAH1b2 with an IC50 value of 0.8 μM; P11 blocks the hydrolysis of PAFAH1b2 and Pafah1B3-mediated substrate PAF to hemolytic PAF with IC50 values of 36 and 880 nM, respectively. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (79.42 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 (3.97 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	1.9855 mL	9.9275 mL	19.8551 mL
5 mM	0.3971 mL	1.9855 mL	3.971 mL
10 mM	0.1986 mL	0.9928 mL	1.9855 mL
50 mM	0.0397 mL	0.1986 mL	0.3971 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

Chang JW, et al. Selective inhibitor of platelet-activating factor acetylhydrolases 1b2 and 1b3 that impairs cancer cell survival. ACS Chem Biol. 2015 Apr 17;10(4):925-32.
Ding X, Lu J, Yu R, Wang X, Wang T, Dong F, Peng B, Wu W, Liu H, Geng Y, Zhang R, Ma H, Cheng J, Yu M, Fang S. Preliminary Proteomic Analysis of A549 Cells Infected with Avian Influenza Virus H7N9 and Influenza A Virus H1N1. PLoS One. 2016 May 25;11(5):e0156017. doi: 10.1371/journal.pone.0156017. eCollection 2016. PubMed PMID: 27223893; PubMed Central PMCID: PMC4880285.
Sarma BK, Liu X, Kodadek T. Identification of selective covalent inhibitors of platelet activating factor acetylhydrolase 1B2 from the screening of an oxadiazolone-capped peptoid-azapeptoid hybrid library. Bioorg Med Chem. 2016 Sep 1;24(17):3953-3963. doi: 10.1016/j.bmc.2016.04.047. Epub 2016 Apr 23. PubMed PMID: 27160052; PubMed Central PMCID: PMC4972644.
Gombojav B, Lee SJ, Kho M, Song YM, Lee K, Sung J. Multiple susceptibility loci at chromosome 11q23.3 are associated with plasma triglyceride in East Asians. J Lipid Res. 2016 Feb;57(2):318-24. doi: 10.1194/jlr.P063461. Epub 2015 Dec 3. PubMed PMID: 26634697; PubMed Central PMCID: PMC4727427.