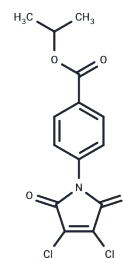


TSI-01

Chemical Properties

CAS No. :	704878-75-1
Formula:	C ₁₄ H ₁₁ Cl ₂ N ₂ O ₄
Molecular Weight:	328.15
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	TSI-01, a pro-inflammatory phospholipid mediator, is rapidly synthesized by lyso-PAF acetyltransferase (lyso-PAFAT) in response to extracellular stimuli. Two types of lyso-PAFAT have been identified: LPCAT1, predominantly expressed in lungs, and LPCAT2, expressed in inflammatory cells. TSI-01 is a selective inhibitor of LPCAT2 (IC ₅₀ values of 0.47 μM and 3.02 μM for human LPCAT2 and LPCAT1, respectively). At 60 μM, it suppresses PAF biosynthesis in calcium ionophore-stimulated mouse peritoneal macrophages.
Targets(IC ₅₀)	Others,PAFR

Solubility Information

Solubility	DMSO: 100 mg/mL (304.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0474 mL	15.2369 mL	30.4739 mL
5 mM	0.6095 mL	3.0474 mL	6.0948 mL
10 mM	0.3047 mL	1.5237 mL	3.0474 mL
50 mM	0.0609 mL	0.3047 mL	0.6095 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

Tarui M, Shindou H, Kumagai K, et al. Selective inhibitors of a PAF biosynthetic enzyme lysophosphatidylcholine acyltransferase 2. J Lipid Res. 2014;55(7):1386-1396. doi:10.1194/jlr.M049205

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