

Product Data Sheet

Ki16198

Cat. No.:	B1591
CAS No.:	355025-13-7
Formula:	C ₂₄ H ₂₅ ClN ₂ O ₅ S
M.Wt:	488.98
Synonyms:	
Target:	GPCR/G protein
Pathway:	LPA Receptor
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥2.53 mg/mL in EtOH; ≥24.45 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		1 mM	2.0451 mL	10.2254 mL	20.4507 mL
		5 mM	0.4090 mL	2.0451 mL	4.0901 mL
		10 mM	0.2045 mL	1.0225 mL	2.0451 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

LPA antagonist

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: YAPC-PD cells

Preparation method: The solubility of this compound in DMSO is > 24.5 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.

Reacting conditions: 10 μM; 24 hrs

	Applications:	In YAPC-PD cells, Ki16198 inhibited LPA-mediated migration and invasion. Moreover, Ki16198 inhibited LPA-induced expression of proMMP-9 protein and mRNA.
In Vivo	Animal experiment	
	Animal models:	Mice bearing YAPC-PD xenografts
	Dosage form:	2 mg/kg; p.o.
	Applications:	In mice bearing YAPC-PD xenografts, Ki16198 (2 mg/kg) substantially decreased the total metastatic node weight in the peritoneal cavity, as well as ascites formation by 50%.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Komachi M, Sato K, Tobo M, et al. Orally active lysophosphatidic acid receptor antagonist attenuates pancreatic cancer invasion and metastasis in vivo[J]. Cancer science, 2012, 103(6): 1099-1104.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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