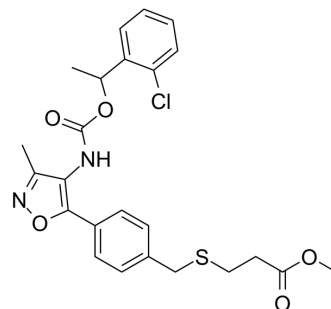


Ki16198

Cat. No.:	HY-18641		
CAS No.:	355025-13-7		
Molecular Formula:	C ₂₄ H ₂₅ ClN ₂ O ₅ S		
Molecular Weight:	488.98		
Target:	LPL Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (204.51 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.11 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.11 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Ki16198 is a potent and orally active LPA receptor antagonist, the methyl ester of Ki16425 (HY-13285). Ki16198 inhibits LPA ₁ and LPA ₃ -induced inositol phosphate production with K _i values of 0.34 μM and 0.93 μM, respectively. Ki16198 is effective for pancreatic cancer tumorigenesis and metastasis in vivo ^[1] .
IC₅₀ & Target	Ki: 0.34 μM (LPA1 receptor) Ki: 0.93 μM (LPA1 receptor) ^[1]

In Vitro	<p>Ki16198 (0-10 μM; 48 hours) is effective to inhibit migration and invasion responses to LPA with a potency similar to that of Ki16425. The inhibitory effects Ki16198 on the invasion response to LPA, but not to EGF in several pancreatic cancer cell lines, including Panc-1,CFPAC-1, and BxPC-3 cells^[1].</p> <p>Ki16198 (10 μM; 48 hours) significantly decreases expression of proMMP-9 protein and mRNA expression in YAPC-PD cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>Ki16198 (oral administaion; 1 mg in 500 ul; 28 days) significantly decreases the degree of metastasis activity in Ki16198-treated mice. Similiar to liver, metastasis to lung and brain in mice is also observed^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="347 449 1515 684"> <tr> <td data-bbox="347 449 618 516">Animal Model:</td> <td data-bbox="618 449 1515 516">Male BALB/c nude mice (6 weeks old)^[1]</td> </tr> <tr> <td data-bbox="347 516 618 569">Dosage:</td> <td data-bbox="618 516 1515 569">1 mg in 500 ul</td> </tr> <tr> <td data-bbox="347 569 618 621">Administration:</td> <td data-bbox="618 569 1515 621">Oral administaion; 28 days</td> </tr> <tr> <td data-bbox="347 621 618 684">Result:</td> <td data-bbox="618 621 1515 684">Inhibited lung and liver metastasis in vivo.</td> </tr> </table>	Animal Model:	Male BALB/c nude mice (6 weeks old) ^[1]	Dosage:	1 mg in 500 ul	Administration:	Oral administaion; 28 days	Result:	Inhibited lung and liver metastasis in vivo.
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Result:	Inhibited lung and liver metastasis in vivo.								

REFERENCES

[1]. Mayumi Komachi, et al. Orally active lysophosphatidic acid receptor antagonist attenuates pancreatic cancer invasion and metastasis in vivo. Cancer Sci. 2012 Jun;103(6):1099-104.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA