## TY-52156

Cat. No.:	HY-19736		
CAS No.:	934369-14-	9	
Molecular Formula:	$C_{18}H_{19}Cl_2N$	30	
Molecular Weight:	364.27		
Target:	LPL Recept	or	
Pathway:	GPCR/G Pro	otein	
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL * "≥" means soluble,	(274.52 mM) but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7452 mL	13.7261 mL	27.4522 mL
		5 mM	0.5490 mL	2.7452 mL	5.4904 mL
		10 mM	0.2745 mL	1.3726 mL	2.7452 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent o Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 40% PEG g/mL (6.86 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	

<b>Description</b> IY-52156 is a potent and selective S1P <sub>3</sub> receptor antagonist with a $K_i$ value of 110 nM <sup>[1]</sup> .	
IC <sub>50</sub> & Target Ki: 110 nM (S1P <sub>3</sub> ) <sup>[1]</sup>	
In VitroTY-52156 inhibits the S1P3 receptor-dependent increase in [Ca2+]i <sup>[1]</sup> . TY-52156 shows submicromolar potency and a high degree of selectivity for S1P3 receptor <sup>[1]</sup> . TY-52156 (10 μM; 10 min) inhibits S1P-induced p44/p42 MAPK phosphorylation <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>	

# Product Data Sheet

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	Cell Line:	Chinese hamster ovary K1 cells
	Concentration:	10 µM
	Incubation Time:	10 min
	Result:	Inhibited S1P-induced p44/p42 MAPK phosphorylation.
n Vivo	TY-52156 (10 mg/kg, 30	mg/kg; p.o.) suppresses $S1P_3$ receptor-induced bradycardia after oral administration in vivo <sup>[1]</sup>
n Vivo	TY-52156 (10 mg/kg, 30 MCE has not independe	mg/kg; p.o.) suppresses S1P <sub>3</sub> receptor-induced bradycardia after oral administration in vivo <sup>[1]</sup> ently confirmed the accuracy of these methods. They are for reference only.
n Vivo	TY-52156 (10 mg/kg, 30 MCE has not independe Animal Model:	mg/kg; p.o.) suppresses S1P <sub>3</sub> receptor-induced bradycardia after oral administration in vivo <sup>[1]</sup> ently confirmed the accuracy of these methods. They are for reference only. Male SD rats (290–340 g) <sup>[1]</sup>
ı Vivo	TY-52156 (10 mg/kg, 30 MCE has not independe Animal Model: Dosage:	mg/kg; p.o.) suppresses S1P <sub>3</sub> receptor-induced bradycardia after oral administration in vivo <sup>[1]</sup> ently confirmed the accuracy of these methods. They are for reference only. Male SD rats (290–340 g) <sup>[1]</sup> 10 mg/kg, 30 mg/kg
Vivo	TY-52156 (10 mg/kg, 30 MCE has not independe Animal Model: Dosage: Administration:	mg/kg; p.o.) suppresses S1P <sub>3</sub> receptor-induced bradycardia after oral administration in vivo <sup>[1]</sup> ently confirmed the accuracy of these methods. They are for reference only. Male SD rats (290–340 g) <sup>[1]</sup> 10 mg/kg, 30 mg/kg Oral administration

#### **CUSTOMER VALIDATION**

- EBioMedicine. 2019 Feb;40:210-223.
- J Immunother Cancer. 2023 Aug;11(8):e006343.
- Oncogene. 2017 Jun 29;36(26):3760-3771.
- Vascul Pharmacol. 2021 Nov 12;106941.
- Vet Microbiol. 2021, 109177.

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#### REFERENCES

[1]. Murakami A, et al. Sphingosine 1-phosphate (S1P) regulates vascular contraction via S1P3 receptor: investigation based on a new S1P3 receptor antagonist. Mol Pharmacol. 2010 Apr;77(4):704-13.

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

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