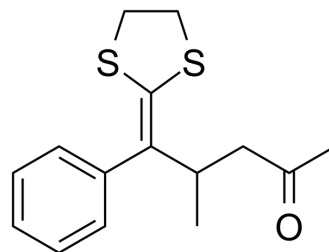


TRPV2-selective blocker 1

Cat. No.:	HY-157131
CAS No.:	2242724-49-6
Molecular Formula:	C ₁₅ H ₁₈ OS ₂
Molecular Weight:	278.43
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (359.16 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.5916 mL	17.9578 mL	35.9157 mL
5 mM		0.7183 mL	3.5916 mL	7.1831 mL	
	10 mM	0.3592 mL	1.7958 mL	3.5916 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (2.98 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (2.98 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (2.98 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	TRPV2-selective blocker 1 (compound IV2-1) is a selective TRPV2 channel blocker with an IC ₅₀ of 6.3 μM. TRPV2-selective blocker 1 does not affect TRPV1, TRPV3 or TRPV4 channels. TRPV2-selective blocker 1 also inhibits TRPV2-mediated Ca ²⁺ influx in macrophages, and inhibits macrophage phagocytosis ^[1] .
IC ₅₀ & Target	TRPV2 6.3 μM (IC ₅₀)

REFERENCES

[1]. Rick Raudszus, et al. Pharmacological inhibition of TRPV2 attenuates phagocytosis and lipopolysaccharide-induced migration of primary macrophages. Br J Pharmacol. 2023 Nov;180(21):2736-2749.

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