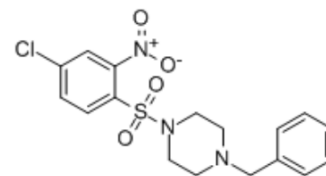


RN-1747

Cat. No.:	HY-19976		
CAS No.:	1024448-59-6		
Molecular Formula:	C ₁₇ H ₁₈ ClN ₃ O ₄ S		
Molecular Weight:	395.86		
Target:	TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
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 : 50 mg/mL (126.31 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.5261 mL	12.6307 mL	25.2615 mL
		5 mM		0.5052 mL	2.5261 mL	5.0523 mL
10 mM			0.2526 mL	1.2631 mL	2.5261 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: ≥ 2.08 mg/mL (5.25 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.25 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.25 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	RN-1747 is a selective transient receptor potential cation channel subfamily V member 4 (TRPV4) agonist, with EC ₅₀ values are 0.77 μM, 4.0 μM and 4.1 μM for hTRPV4, mTRPV4 and rTRPV4 respectively. RN-1747 also antagonizes TRPM8, with an IC ₅₀ of 4 μM ^[1] .
IC ₅₀ & Target	EC ₅₀ : 0.77 μM (hTRPV4), 4.0 μM (mTRPV4), 4.1 μM (rTRPV4) ^[1] .

REFERENCES

[1]. Vincent F, et al. Identification and characterization of novel TRPV4 modulators. *Biochem Biophys Res Commun*. 2009 Nov 20;389(3):490-4.

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

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