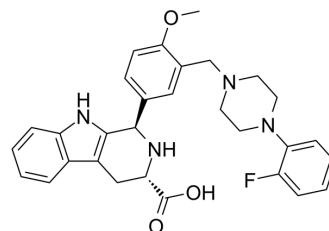


trans-Ned 19

Cat. No.:	HY-103316		
CAS No.:	1354235-96-3		
Molecular Formula:	C ₃₀ H ₃₁ FN ₄ O ₃		
Molecular Weight:	514.59		
Target:	Calcium 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 : 100 mg/mL (194.33 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.9433 mL	9.7165 mL	19.4329 mL
		5 mM	0.3887 mL	1.9433 mL	3.8866 mL
10 mM		0.1943 mL	0.9716 mL	1.9433 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: ≥ 6.25 mg/mL (12.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (12.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (12.15 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	trans-Ned 19, a NAADP antagonist and TPC blocker, suppresses the calcium signal in human umbilical vein endothelial cells (HUVEC) and the rat aorta relaxation in response to low histamine concentrations ^[1] .
IC₅₀ & Target	NAADP, TPC, Calcium Channel ^[1]

REFERENCES

[1]. Zharkich IL, et al. Suppression of Histamine-Induced Relaxation of Rat Aorta and Calcium Signaling in Endothelial Cells by Two-Pore Channel Blocker trans-NED19 and Hydrogen Peroxide. Izv Akad Nauk Ser Biol. 2016 Jul;(4):430-438.

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