TRPM8 antagonist WS-3

Cat. No.: HY-W014325

CAS No.: 39711-79-0

Molecular Formula: $C_{13}H_{25}NO$

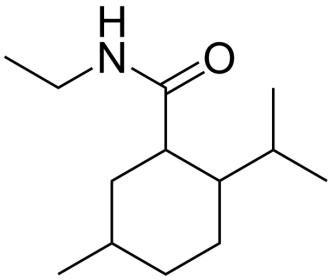
Molecular Weight: 211.34

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 : ≥ 100 mg/mL (473.17 mM)

H_2O : 1 mg/mL (4.73 mM; ultrasonic and heat to 60°C)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.7317 mL	23.6586 mL	47.3171 mL
5 mM	0.9463 mL	4.7317 mL	9.4634 mL
10 mM	0.4732 mL	2.3659 mL	4.7317 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: ≥ 2.5 mg/mL (11.83 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.83 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TRPM8 antagonist WS-3 is an agonist of TRPM8 with an EC_{50} of 3.7 μM.

IC_{50} & Target

EC50: 3.7 μM (TRPM8)[1]

REFERENCES

[1]. Behrendt HJ, et al. Characterization of the mouse cold-menthol receptor TRPM8 and vanilloid receptor type-1 VR1 using a fluorometric imaging plate reader (FLIPR) assay. Br J Pharmacol. 2004 Feb;141(4):737-45.

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