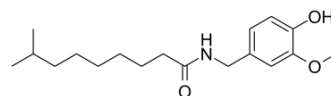


Dihydrocapsaicin

Cat. No.:	HY-N0361
CAS No.:	19408-84-5
Molecular Formula:	C ₁₈ H ₂₉ NO ₃
Molecular Weight:	307.43
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (813.19 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.2528 mL	16.2639 mL	32.5277 mL
				5 mM	0.6506 mL	3.2528 mL	6.5055 mL
				10 mM	0.3253 mL	1.6264 mL	3.2528 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: ≥ 6.25 mg/mL (20.33 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (20.33 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (20.33 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Dihydrocapsaicin is a natural capsaicin, acts as a selective TRPV1 agonist, and also increases p-Akt levels. Dihydrocapsaicin enhances the hypothermia-induced neuroprotection ^{[1][2]} .
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REFERENCES

[1]. Gao F, et al. Impairment in function and expression of transient receptor potential vanilloid type 4 in Dahl salt-sensitive rats: significance and mechanism. Hypertension. 2010 Apr;55(4):1018-25.

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

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