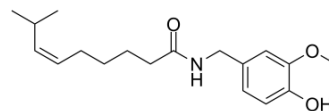


(Z)-Capsaicin

Cat. No.:	HY-B1583
CAS No.:	25775-90-0
Molecular Formula:	C ₁₈ H ₂₇ NO ₃
Molecular Weight:	305.41
Target:	TRP Channel; HSV
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (409.29 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2743 mL	16.3714 mL	32.7429 mL
	5 mM	0.6549 mL	3.2743 mL	6.5486 mL
	10 mM	0.3274 mL	1.6371 mL	3.2743 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Z)-Capsaicin is the cis isomer of capsaicin, acts as an orally active TRPV1 agonist, and is used in the research of neuropathic pain.

IC₅₀ & Target

TRPV1 receptor^[1]

In Vitro

(Z)-Capsaicin is the cis isomer of capsaicin, acting as a TRPV1 agonist. (Z)-Capsaicin may also blocks the neuronal calcium channel^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

(Z)-Capsaicin (Zucapsaicin) significantly attenuates nociceptive behavior after oral administration in rats. (Z)-Capsaicin is also tolerated in the primary or recurrent experimental genital herpes simplex virus infection in guinea pigs^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bourne N, et al. Civamide (cis-capsaicin) for treatment of primary or recurrent experimental genital herpes. *Antimicrob Agents Chemother.* 1999 Nov;43(11):2685-8.

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

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