

Capsiate

Chemical Properties

CAS No. : 205687-01-0

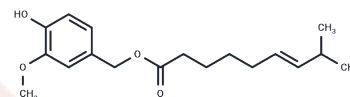
Formula: C₁₈H₂₆O₄

Molecular Weight: 306.4

Store at low temperature, Keep away from direct sunlight, Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Capsiate is an orally active TRPV1 agonist, a non-irritating capsaicin analog that acts as an antiallergic agent with anti-inflammatory, antioxidant, hypoglycemic, and inhibitory angiogenic activity.
Targets(IC50)	Antioxidant, TRP/TRPV Channel
In vitro	Capsiate elicits current responses in HEK293 cells expressing TRPV1[3]. Additionally, Capsiate (5 to 25 μM) inhibits Src and VEGF-induced proliferation and tube formation in human umbilical vein endothelial cells (HUVECs)[1].
In vivo	Capsiate (0.03~0.54 mM; s.c.) induces nociceptive responses in mice.[3] Topical application of Capsiate reduces antigen-induced increases in ear thickness in a mouse model of passive cutaneous anaphylaxis and decreases epidermal thickness and eosinophil and mast cell infiltration in a mouse model of atopic dermatitis.[3] Capsiate (10 mg/kg) decreases body weight gain and perirenal fat weight, as well as increases oxygen consumption, fat oxidation, and carbohydrate oxidation, in a mouse model of ad libitum feeding-induced weight gain.[4]

Solubility Information

Solubility	DMSO: 90 mg/mL (293.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2637 mL	16.3185 mL	32.6371 mL
5 mM	0.6527 mL	3.2637 mL	6.5274 mL
10 mM	0.3264 mL	1.6319 mL	3.2637 mL
50 mM	0.0653 mL	0.3264 mL	0.6527 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pyun BJ, et al. Capsiate, a nonpungent capsaicin-like compound, inhibits angiogenesis and vascular permeability via a direct inhibition of Src kinase activity. *Cancer Res.* 2008;68(1):227-235.

Iida T, et al. TRPV1 activation and induction of nociceptive response by a non-pungent capsaicin-like compound, capsiate. *Neuropharmacology.* 2003;44(7):958-967.

Lee, et al. Capsiate Inhibits DNFB-Induced Atopic Dermatitis in NC/Nga Mice through Mast Cell and CD4+ T-Cell Inactivation. *J Invest Dermatol.* 2015;135(8):1977-1985.

Haramizu S, et al. Capsiate, a non-pungent capsaicin analog, reduces body fat without weight rebound like swimming exercise in mice. *Biomed Res.* 2011;32(4):279-28

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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