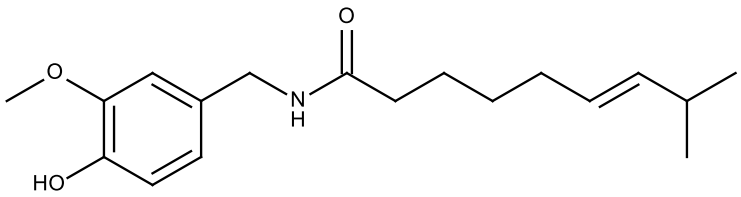
Catalog # 10-2298

Capsaicin, natural

CAS# 404-86-4

8-Methyl-N-vanillyl-*trans*-6-nonenamide

Lot # X102134



Capsaicin is a vanilloid agonist known to activate the transient receptor potential channel vanilloid subfamily member 1 (TRPV1)[1,2] and to possess analgesic[3], anti-inflammatory[4] and hypolocomotor effects[5].

1) Gunthorpe *et al*. (2002*) The diversity in the vanilloid (TRPV) receptor family of ion channels.* Trends Pharmacol. Sci. **23** 183
2) Van Der Stelt and Di Marzo (2004) *Endovanilloids. Putative endogenous ligands of transient receptor potential vanilloid 1 channels.* Eur. J. Biochem. **271** 1827
3) Perkins and Campbell (1992) *Capsazepine reversal of the antinociceptive action of capsaicin* in vivo*.* Br. J. Pharmacol. **107** 329
4) Kim *et a*l..(2003) *Capsaicin exhibits anti-inflammatory property by inhibiting IkB-a degradation in LPS-stimulated peritoneal macrophages.* Cell. Signal.;**15** 299
5) Di Marzo *et al*. (2001). *Hypolocomotor effects in rats of capsaicin and two long chain capsaicin homologues.* Eur. J. Pharmacol. ;**420** 123

PHYSICAL DATA

Molecular Weight:	305.41
Molecular Formula:	$C_{18}H_{27}NO_3$
Purity:	>98% natural mixture of capsaicin and dihydrocapsaicin which is unresolvable by TLC (TLC: 5% MeOH/methylene chloride; Rf= 0.33)
Solubility:	Ethanol (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	SEVERE IRRITANT! HANDLE WITH CARE! Store as supplied at room temperature for up to one year from the date of purchase. Solutions in ethanol may be stored at -20°C for up to 3 months. .

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