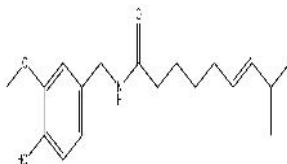


**Product: Capsaicin****ALTERNATE NAME:** *E*-N-[(4-Hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonenamide**CATALOG #:** 2521-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>18</sub>H<sub>27</sub>NO<sub>3</sub>**MOLECULAR WEIGHT:** 305.42**CAS No.** 404-86-4**APPEARANCE:** White solid**SOLUBILITY:** DMSO (~15 mg/ml) or EtOH (~15 mg/ml)**PURITY:** >98% by HPLC**STORAGE:** Store at -20°C. Protect from air and moisture**DESCRIPTION:** Capsaicin is the ingredient found in different types of hot peppers, such as cayenne peppers, that makes the peppers spicy hot. Prototype vanilloid receptor agonist (pEC<sub>50</sub> values are 7.97 and 7.10 at rat and human VR1 receptors respectively). Activates sensory neurons that give rise to unmyelinated C-fibers, many of which contain substance P. Topical application desensitizes the sensory nerve endings giving a paradoxical antinociceptive effect.**REFERENCES:** Holzer, P. (1991). *Pharmacol. Rev.* **43**, 143-201.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Aconitine (**Cat. No. 2423-10, 50**)Mambalgin (**Cat. No. 2421-50, 100**)Nav 1.7 Inhibitor (**Cat. No. 2477-100, 500**)Veratridine (**Cat. No. 2422-5, 25**)**FOR RESEARCH USE ONLY! Not to be used in humans.**