



## Product Information

**Product ID** C0266

**CAS No.** 404-86-4

**Chemical Name** (6E)-N-[(4-Hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonenamide

**Synonym** Axsain, Mioton, Zacin, Zostrix

**Formula** C<sub>18</sub>H<sub>27</sub>NO<sub>3</sub>

**Formula Wt.** 305.41

**Melting Point** 65 °C

**Purity** ≥95%, capsaicinoid content

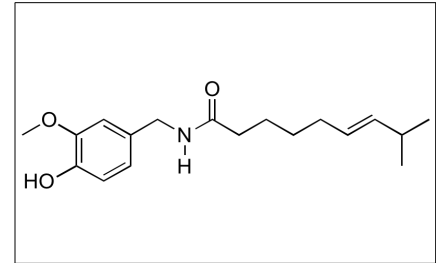
**Solubility** Soluble in ether, benzene, and chloroform. Practically insoluble in cold water.

**Store Temp** 4 °C

**Ship Temp** Ambient

**Description** Capsaicin is an agonist of transient receptor potential vanilloid (TRPV) channels that was originally found in peppers of the *Capsicum* genus. Capsaicin exhibits analgesic, anti-inflammatory, anti-obesity, and anticancer chemotherapeutic activity. Capsaicin also displays bronchoconstrictive activity and is used as a natural irritant. In vivo, this compound desensitizes TRPV1 channels, inhibiting thermal and mechanical hyperalgesia. In other animal models, capsaicin inhibits adipogenesis, decreases metabolic dysregulation, activates PPARα, and suppresses weight gain and fat deposition. Capsaicin also induces apoptosis via ROS and disruption of the mitochondrial membrane and inhibits tumor growth in cellular and animal models of prostate cancer, breast cancer, pancreatic cancer, and hepatocellular carcinoma.

This mixture contains capsaicin, ≥65%, dihydrocapsaicin, ~20%, and nordihydrocapsaicin, ~4 %.



**Bulk quantities available upon request**

Product ID	Size
C0266	100 mg
C0266	250 mg
C0266	1 g

**References** Díaz-Laviada I, Rodríguez-Henche N. The potential antitumor effects of capsaicin. *Prog Drug Res.* 2014;68:181-208. PMID: 24941670.

Leung FW. Capsaicin as an anti-obesity drug. *Prog Drug Res.* 2014;68:171-9. PMID: 24941669.

Kissin I. Vanilloid-induced conduction analgesia: selective, dose-dependent, long-lasting, with a low level of potential neurotoxicity. *Anesth Analg.* 2008 Jul;107(1):271-81. PMID: 18635498.

Jensen PG, Curtis PD, Dunn JA, et al. Field evaluation of capsaicin as a rodent aversion agent for poultry feed. *Pest Manag Sci.* 2003 Sep;59(9):1007-15. PMID: 12974352.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.