

Capsaicin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Capsaicin

Catalog No.: CFN99917

Cas No.: 404-86-4

Purity: >=98%

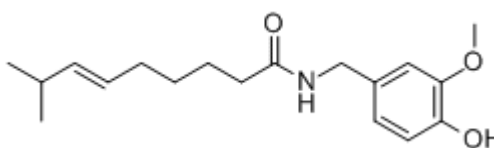
M.F: C₁₈H₂₇NO₃

M.W: 305.42

Physical Description: White powder

Synonyms: (E)-N-[(4-Hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonenamide;

8-Methyl-N-vanillyl-6-nonenamide; (E)-8-Methyl-N-vanillyl-6-nonenamide.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Others.

[Source]

The fruits of *Capsicum annum* L.

[Biological Activity or Inhibitors]

Capsaicin, the main pungent ingredient in 'hot' chilli peppers, elicits a sensation of burning pain by selectively activating sensory neurons that convey information about noxious stimuli to the central nervous system.^[1]

Treatment of immortalized stromal-like and epithelial-like endometriotic cells with capsaicin resulted in inhibition of proliferation in a concentration-dependent manner, endometriotic cells are more sensitive to capsaicin treatment than immortalized endometrial cells, suggesting that capsaicin may be an admissible drug candidate for treating endometriosis.^[2]

Capsaicin has antioxidant activity , it is more effective than melatonin in suppressing the formation of lipid hydroperoxides but not as effective as butylated hydroxytoluene(BHT).^[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O=70:30 ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 280 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Caterina M J, Schumacher M A, Tominaga M, *et al. Nature*, 1997, 389(6653):816-24.

[2] Wu Y, Starzinski-Powitz A, Guo S W. *Gynecol. Obstet. Inves.*, 2008, 66(1):59-62.

[3] And D E H, Slickman A M, Henderson S K. *J.Agr. Food Chem.*, 1999, 47(7):2563-70.

[4] Guo C L, Chen H Y, Cui B L, *et al. Int. J. Anal. Chem.*, 2014, 2015(4):1-6.

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