

Dihydrocapsaicin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dihydrocapsaicin

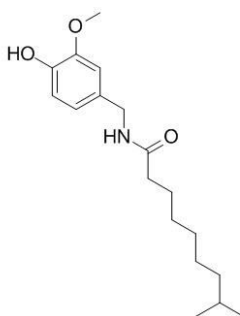
Catalog No.: CFN99918

Cas No.: 19408-84-5

Purity: >=98%

M.F: C₁₈H₂₉NO₃

M.W: 307.43



Physical Description: White cryst.

Synonyms: 8-Methyl-n-vanillyl-trans-6-nonenamide; 8-Methyl-n-vanillyl-6-nonenamide; (E)-8-Methyl-non-6-enoic acid- 4-hydroxy-3-methoxy-benzylamide.

[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]

The active ingredients of spices such as chili and turmeric (capsaicin, dihydrocapsaicin and curcumin, respectively) have been shown to reduce the susceptibility of low-density lipoprotein (LDL) to oxidation, the oxidation of LDL is believed to be the initiating factor for the development and progression of atherosclerosis, suggests that they have anti-atherogenic activity.^[1]

Dihydrocapsaicin(DHC) treatment depletes peptidergic nerve fibers of substance P and alters mast cell density in the respiratory tract of neonatal sheep.^[2]

Dihydrocapsaicin induces autophagy in human cancer cells in a catalase-regulated manner, DHC activates autophagy in a p53-independent manner and that may contribute to cytotoxicity of DHC. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=50:50 ;

Flow rate: 1.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 222 nm.

[Storage]

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

[References]

[1] Ahuja K D, Kunde D A, Ball M J, *et al. J. Agr. Food Chem.*, 2006, 54(54):6436-9.

[2]Rafael Ramírez-Romeroa, Jack M Gallupa, Ioana M Soneab,*et al.Regul. Peptides*, 2000,91(1-3):97-106.

[3] Oh S, Kim Y S, Hou Y, *et al. Autophagy*, 2008, 4(8):1009-19.

[4] Al Othman Z A, Ahmed Y B, Habila M A, *et al. Molecules*, 2011, 16(10):8919-29.

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