

Nordihydrocapsaicin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Nordihydrocapsaicin

Catalog No.: CFN90241

Cas No.: 28789-35-7

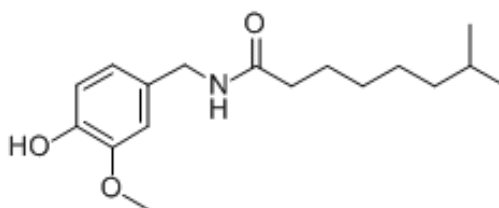
Purity: >=98%

M.F: C₁₇H₂₇NO₃

M.W: 293.40

Physical Description: Powder

Synonyms: N-[(4-Hydroxy-3-methoxyphenyl)methyl]-7-methyl-octanamide.



[Intended Use]

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

[Source]

The fruits of *Capsicum annuum* L.

[Biological Activity or Inhibitors]

Capsaicin and dihydrocapsaicin are the major active components in pepper spray

products, which are widely used for law enforcement and self-protection, they has cytotoxicity, they induces p53 protein and G1 phase cell cycle arrest.^[1]

Dihydrocapsaicin activates autophagy in a p53-independent manner and that may contribute to cytotoxicity of dihydrocapsaicin.^[2]

Dihydrocapsaicin induces hypothermia and substance P depletion, it or radiolabelled dihydrocapsaicin, may be a useful tool for investigating the mechanisms by which capsaicin alters thermoregulation and primary afferent neuron function.^[3]

Capsaicin and dihydrocapsaicin have effect on in vitro blood coagulation and platelet aggregation. ^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile - H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Halme M, Pesonen M, Salo H, *et al. J. Chromatogr.B* , 2015, 1009-1010:17-24.

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

[3] Miller M S, Brendel K, Buck S H, *et al. Eur. J. Pharmacol.*, 1982, 83(3-4):289-92.

[4] Adams M J, Ahuja K D K, Geraghty D P. *Thromb. Res.*, 2009, 124(6):721-3.

[5] Zhang J, Sun C B, Shi L L, *et al. Chinese Journal of Pharmaceutical Analysis*, 2011,

volume 31(2):244-6.

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