

Nonivamide Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Nonivamide

Catalog No.: CFN90179

Cas No.: 2444-46-4

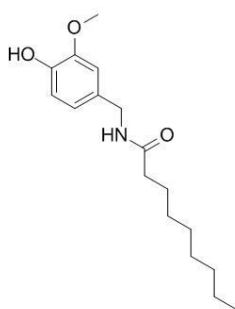
Purity: >=98%

M.F: C₁₇H₂₇NO₃

M.W: 293.40

Physical Description: Powder

Synonyms: N-[(4-hydroxy-3-methoxyphenyl)methyl]nonanamide.



[Intended Use]

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

[Source]

The fruits of *Capsicum annum* L.

[Biological Activity or Inhibitors]

Nonivamide and capsaicin are novel skin permeation enhancers for indometacin.^[1]

Nonivamide has antioxidant activity, it has the efficacy to protect linoleic and cholesterol against free radical attack.^[2]

Nonivamide can enhance miRNA let-7d expression and decrease adipogenesis peroxisome - proliferator activated receptor γ (PPAR γ) expression in 3T3-L1 cells; it may be effective anti-obesity agents by reducing energy intake, enhancing energy metabolism, decreasing serum triacylglycerol content, and inhibiting adipogenesis via activation of the transient receptor potential cation channel subfamily V member 1 (TRPV1).^[3]

Nonivamide possesses similar anti-inflammatory potential as capsaicin and t-pellitorine ,it exploits an anti-inflammatory effect by inhibiting the EC-LPS induced activation of the MAPK pathway in U-937 macrophages, in addition, the TRP channel activation plays a role in the anti-inflammatory capacity of capsaicin and nonivamide.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.5% Formic acid in water,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Fang J Y, Fang C L, Hong C T, *et al. Eur. J. Pharm. Sci.*, 2001, 12(3):195-203.

[2] Rosa A, Appendino G, Melis M P, *et al. Chem.Biol. Interact.*, 2009, 180(2):183-92.

[3] Rohm B, Holik A K, Kretschy N, *et al. J. Cell. Biochem.*, 2015, 116(6):1153-63.

[4] Walker J, Ley J P, Schwerzler J, *et al. Mol. Nutr. Food Res.*, 2016,9,26.

[5] Nobuyuki Kozukue , Jaesook Han , Etsuko Kozukue , *et al. J. Agr. Food Chem.*, 2005,
53(23):9172-81.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com