



N-trans-Feruloyltyramine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: N-trans-Feruloyltyramine

Catalog No.: CFN97135

Cas No.: 66648-43-9

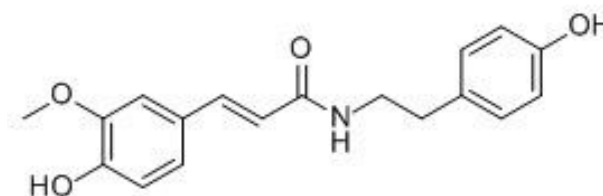
Purity: > 98%

M.F: C₁₈H₁₉NO₄

M.W: 313.4

Physical Description: Powder

Synonyms: (E)-3-(4-hydroxy-3-methoxyphenyl)-N-[2-(4-hydroxyphenyl)ethyl]-2-propenamide; N-feruloyltyramine.



[Intended Use]

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

[Source]

The herbs of *Cannabis sativa* L.

[Biological Activity or Inhibitors]

N-trans-feruloyl-tyramine(NTF) has hypoglycemic and hypotensive activity, the extract and fractions of Smilax aristolochiifolia root with NTF are useful to counteract some symptoms of metabolic syndrome (MS) in animal models.^[1]

N-trans-feruloyltyramine can protect against oxidative stress and cell death, it can reduce production of reactive oxygen species induced by A β (1-42), the protective effect of NTF against A β (1-42)-induced neuronal death might be due to its antioxidative property.^[2]

N-trans-feruloyltyramine can inhibit melanogenesis by inducing downregulation of tyrosinase in a dose-dependent manner, it exhibits a greater potency than kojic acid as a standard inhibitor of melanogenesis.^[3]

N-trans-feruloyltyramine possesses anti-inflammatory effect, the effect may be attributed to downregulation of COX-2 and iNOS via suppression of AP-1 and the JNK signalling pathway in RAW 264.7 macrophages.^[4]

N-trans-feruloyltyramine shows cytotoxicity against the P-388 cancer cell line.^[5]

N-trans-feruloyltyramine exhibits antioxidant and radical scavenging properties towards beta-carotene and 2,2-diphenyl-1-picrylhydrazyl (DPPH) radical.^[6]

[Solvent]

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

[HPLC Method]^[7]

Mobile phase: Acetonitrile-H₂O=25:75 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

- [1] Amaro C A, Gonzálezcortazar M, Herreraruiiz M, *et al. Molecules*, 2014, 19(8): 11366-84.
- [2] Thangnipon W, Suwanna N, Kitiyanant N, *et al. Neurosci. Lett.*, 2012, 513(2):229-32.
- [3] Efdi M, Ohguchi K, Akao Y, *et al. Biol. Pharm. Bull.*, 2007, 30(10):1972-4.
- [4] Jiang Y, Yu L, Wang M H. *Chem.Biol. Interact.*, 2015, 235(25):56-62.
- [5] Chang K C, Duh C Y, Chen I S, *et al. Planta Med.*, 2003, 69(7):667-72.
- [6] Cavin A, Hostettmann K, Dyatmyko W, *et al. Planta Med.*, 1998, 64(5):393-6.
- [7] Shi L, Zhu H, Zhuo M A, *et al. Lishizhen Medicine & Materia Medica Research*, 2008, 19(8):1815-6

[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