



## N-Feruloyloctopamine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** N-Feruloyloctopamine

**Catalog No.:** CFN97707

**Cas No.:** 66648-44-0

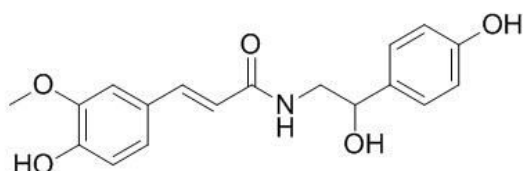
**Purity:** > 98%

**M.F:** C<sub>18</sub>H<sub>19</sub>NO<sub>5</sub>

**M.W:** 329.35

**Physical Description:** Powder

**Synonyms:** N-trans-Feruloyloctopamine.



### [ Intended Use ]

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

### [ Source ]

The root bark of *Lycium chinense* Miller.

### [ Biological Activity or Inhibitors ]

(S)-N-trans-Feruloyloctopamine, isolated from garlic skin, is an ideal tyrosinase inhibitor, and could be used in food and medical industry.<sup>[1]</sup>

Trans-N-Feruloyloctopamine has an anti-fungal effect and impede the dimorphic transition of pathogen, *Candida albicans*, it is potent at 5–10  $\mu\text{g ml}^{-1}$  and without hemolytic activity against human erythrocyte cells.<sup>[2]</sup>

Trans-N-Feruloyloctopamine has antioxidant activity.<sup>[3]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Methanol-H<sub>2</sub>O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 310 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wu Y, Wu Z R, Chen P, *et al.* *4th International Conference on Emerging Nuclear Energy Systems* :. *World Scientific*, 1987:1476-8.

[2] Dong G L, Park Y, Kim M R, *et al.* *Biotechnol. Lett.*, 2004, 26(14):1125-30.

[3] Ichikawa M, Ryu K, Yoshida J, *et al.* *J. Agr. Food Chem.*, 2003, 51(25):7313-7.

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