

5-Hydroxytryptophan Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 5-Hydroxytryptophan

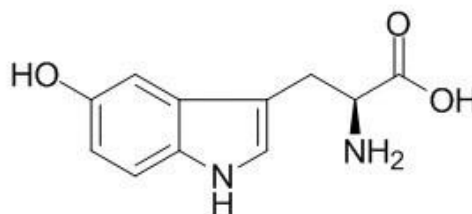
Catalog No.: CFN99742

Cas No.: 56-69-9

Purity: >=98%

M.F: C₁₁H₁₂N₂O₃

M.W: 220.23



Physical Description: White powder

Synonyms:DL-5-Hydroxytryptophan;2-Chloro-3-methylamine-5-trifluoromethylpyridine hydrochloride.

[Intended Use]

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

[Source]

The seeds of *Griffonia simplicifolia*.

[Biological Activity or Inhibitors]

5-Hydroxytryptophan and 3,4-dihydroxyphenylalanine are reserpine antagonists.^[1]

5-Hydroxytryptophan supplementation can inhibit endothelial serotonylation, leukocyte recruitment, and allergic inflammation, the symptoms of anxiety/depression of that patients with allergy/asthma also could be reduced by 5-hydroxytryptophan supplementation.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 0.1%Phosphoric acid in water- Acetonitrile=93:7 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 275 nm.

[Storage]

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

[References]

[1] Carlsson A, Lindqvist M, Magnusson T. *Nature*, 1957, 180(4596):1200.

[2] Abdala-Valencia H, Berdnikovs S, Mccary C A, *et al. Am. J. Physiol. Lung Cell Mol. Physiol.*, 2012, 303(8): L642–L660.

[3] Babu SK, Ramakrishna T, Subbaraju GV, *et al. Asian Journal of Chemistry*, 2005, 17(1): 506-10 .

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