

Hordenine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Hordenine

Catalog No.: CFN99901

Cas No.: 539-15-1

Purity: >=95%

M.F: C₁₀H₁₅NO

M.W: 165.24

Physical Description: White cryst.

Synonyms: 4-(2-Dimethylaminoethyl)phenol.

[Intended Use]

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

[Source]

The herbs of Dendrolobium triangulare.

[Biological Activity or Inhibitors]

Hordenine is the precursor of N-nitrosodimethylamine (NDMA) in malt.[1]

Hordenine acts as an inhibitor of noradrenaline uptake, dietary-hordenine is unlikely to be

deaminated by intestinal monoamine oxidase (MAO) as this is predominantly MAO-A,

consequently, it is likely to be absorbed and could affect the sympathetic nervous system,

by virtue of its action as an inhibitor of noradrenaline uptake. [2]

Hordenine can inhibit melanogenesis by suppressing cAMP production, which is involved

in the expression of melanogenesis-related proteins and suggest that hordenine may be

an effective inhibitor of hyperpigmentation. [3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-0.25 M Ammonium acetate solution(ammonia water to adjust

the pH to 9.5), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Slack PT, Wainwright T. Journal of the Institute of Brewing, 1981, 87(4):259-63.

[2] Barwell C J, Basma A N, Lafi M A K, et al. J. Pharm. Pharmacol., 1989, 41(6):421-3.

[3] Kim S C, Lee J H, Kim M H, et al. Food Chem., 2013, 141(1):174-81.

[4] Qing D S, Wang X, Qin Y, et al. China Pharmacy, 2016(3):367-9.

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