

Vasicine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Vasicine

Catalog No.: CFN97052

Cas No.: 6159-55-3

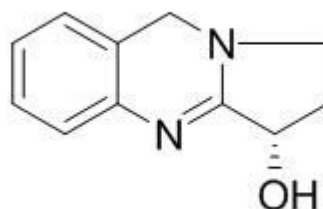
Purity: > 95%

M.F: C₁₁H₁₂N₂O

M.W: 188.2

Physical Description: Powder

Synonyms: (3R)-1,2,3,9-tetrahydropyrrolo[2,1-b]quinazolin-3-ol; Peganine.



[Intended Use]

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

[Source]

The leaves of *Adhatoda vasica*.

[Biological Activity or Inhibitors]

Vasicine has antimicrobial activity.^[1]

Vasicine can reversibly and competitively inhibit enzyme acetyl cholinesterase (AChE) with k_i value 11.24 μM , it can be considered as a promising inhibitor for acetyl cholinesterase where it can be used directly or indirectly for the development of efficient anti-Alzheimer drug.^[2]

Vasicine has antioxidant and anti-inflammatory activity against lung damage rats.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile - 0.1M Phosphate buffer - Glacial acetic acid =15: 85:1(with pH adjusted to 4.0 using phosphoric acid);

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:300 nm.

[Storage]

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

[References]

[1] Pa R, Mathew L. *Asian Pacific Journal of Tropical Biomedicine*,2012, 2(z3):S1556-60.

[2] Ali S K, Hamed A R, Soltan M M, *et al. South African Journal of Botany*, 2016, 104:118-24.

[3] Rao D S, Indira A. Jayaraj, R Jayraaj, *et al. Indian J. Allergy Asthma Immunol.*,2006, 20(1):1-7.

[4] Dhalwal K, Shinde V M, Mahadik K R. *Journal of Medicinal Plants Research*, 2010,4 (13):1289-96.

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