Natural Products



Cytisine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Cytisine

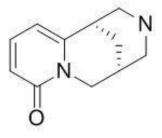
Catalog No.: CFN99513

Cas No.: 485-35-8

Purity: >=98%

 $M.F: C_{11}H_{14}N_2O$

M.W: 190.24



Physical Description: Powder

Synonyms:1,2,3,4,5,6-Hexahydro-1,5-methano-8H-pyrido[1,2-a][1,5]diazocin-8-one; Lup inidine.

[Intended Use]

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

[Source]

The herbs of Genista tinctoria L.

[Biological Activity or Inhibitors]

Cytisine has been licensed in Eastern Europe as an aid to smoking cessation for 40 years, it is a partial agonist with high affinity binding to the alpha4beta2 nicotinic acetylcholine receptor believed to be central to the rewarding effect of nicotine. ^[1]

Cytisine, a partial agonist at alpha4/beta2 nAChRs, and a full agonist at alpha3/beta4 and alpha7 nAChRs, has antidepressant-like properties in several rodent models of antidepressant efficacy.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.05 M Potassium dihydrogen phosphate solution(containing 2.0 mL·L⁻¹ triethylamine) =90:10 ; Flow rate: 1.0 ml/min; Column temperature: 30 °C; The wave length of determination: 311 nm.

[Storage]

 $2\text{-}8\,^\circ\!\!\mathrm{C}$, Protected from air and light, refrigerate or freeze.

[References]

[1] Zatonski W, Cedzynska M, Tutka P, et al. Tobacco Control, 2006, 15(6):481-4.

[2] Mineur Y S, Eibl C, Young G, et al. J.Pharmacol.Exp.Ther., 2009, 329(1):377-86.

[3] Wang J, Ma L, Liu L, *et al. Chinese Journal of Pharmaceutical Analysis, 2011, 31(1):* 148-50.

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