

Neotuberostemonine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Neotuberostemonine

Catalog No.: CFN99475

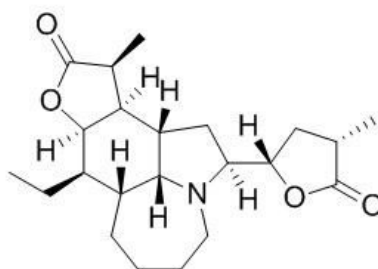
Cas No.: 143120-46-1

Purity: > 95%

M.F: C₂₂H₃₃NO₄

M.W: 375.5

Physical Description: Powder



Synonyms: Stenine, 2-(tetrahydro-4-methyl-5-oxo-2-furanyl)-, [2b(2S,4S), 10a, 11a, 12b]-; Furo[2,3-h]pyrrolo[3,2,1-jk][1]benzazepin-10(2H)-one, 8-ethyl dodecahydro-11-methyl-2-(tetrahydro-4-methyl-5-oxo-2-furanyl)-, [2S-[2a(2R*,4R*), 7aa, 8a, 8ab, 11a, 11ab, 11ba, 11ca]]-; Stemonine LG; Tuberostemonine LG.

[Intended Use]

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

[Source]

The roots of *Stemona tuberosa*.

[Biological Activity or Inhibitors]

Neotuberostemonine (NTS) is one of the main antitussive alkaloids in the root of *Stemona tuberosa* Lour, it has a significant protective effect on bleomycin (BLM)-induced pulmonary fibrosis through suppressing the recruitment and M2 polarization of macrophages.^[1]

Neotuberostemonine demonstrates antitussive properties in guinea pigs.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 0.05% Ammonia-Acetonitrile ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Xiang J, Cheng S, Feng T, *et al. Int. Immunopharmacol.*, 2016, 36:158-64.

[2] Xu Y T, Hon PMJiang R W, Cheng L, *et al. J. Ethnopharmacol.*, 2006, 108(1):46-53.

[3]Liao J N, Qin S D, Qu X S, *et al. Journal of Chinese Medicinal Materials*, 2014, 37(11):1956-60.

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