

Heliosupine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Heliosupine

Catalog No.: CFN00268

Cas No.: 32728-78-2

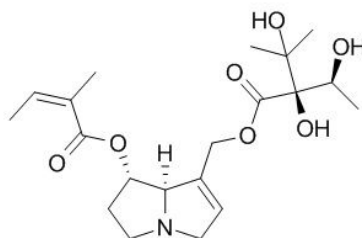
Purity: > 95%

M.F: C₂₀H₃₁NO₇

M.W: 397.47

Physical Description: Powder

Synonyms: (1S,7aR)-7-[(2S)-2,3-dihydroxy-2-[(1S)-1-hydroxyethyl]-3-methylbutanoyl]oxy)methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl (2Z)-2-methylbut-2-enoate.



[Intended Use]

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

[Source]

The herbs of *Cynoglossum officinale* L.

[Biological Activity or Inhibitors]

Heliosupine, heliosupine N-oxide, 3'-O-acetylheliosupine N-oxide, and 7-O-angeloylechinatine N-oxide, isolated from the whole plant ethanolic extract of *Solenanthus lanatus*, show inhibition activity against the acetylcholinesterase (AChE), with IC₅₀ 0.53-0.60 mM.^[1]

Heliosupine, echinatine, and 3'-acetylechinatine can deter feeding by the polyphagous larvae of *Spodoptera exigua*.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol - 0.05% Triethylamine (pH 7.5) = 30:70 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Benamar H, Tomassini L, Venditti A, *et al. Nat. Prod. Res.*, 2016, Jan 6:1-8.

[2] Van Dam N M, Vuister L W, Bergshoeff C, *et al. J. Chem. Ecol.*, 1995, 21(5):507-23.

[3] Fan Q Y, Wu C Z Wang W H, *et al. Journal of Instrumental Analysis*, 2014, 33(9):1073-7.

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