

Senecionine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Senecionine

Catalog No.: CFN00417

Cas No.: 130-01-8

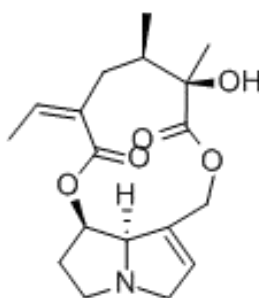
Purity: >=98%

M.F: C₁₈H₂₅NO₅

M.W: 335.40

Physical Description: Powder

Synonyms: 12-Hydroxysenecionan-11,16-dione; (15Z)-12-hydroxysenecionan-11,16-dione.



[Intended Use]

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

[Source]

The herbs of *Senecio scandens*.

[Biological Activity or Inhibitors]

Senecionine has been shown to produce an increase in cytosolic free Ca^{2+} concentration in isolated hepatocytes that correlated with an increase in cellular toxicity; the cytotoxicity is greater in the absence of extracellular Ca^{2+} than in its presence, suggesting that alterations in intracellular Ca^{2+} distribution, and not an influx of extracellular Ca^{2+} , are responsible for the senecionine-induced hepatotoxicity.^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Acetonitrile- 0.2% Phosphoric acid-Triethylamine, gradient elution ;

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] Griffin D S, Segall H J. *Biochem. Pharmacol.*, 1989, 38(3):391-7.

[2] Ming Y, Li J Y, Li X Y, *et al. Anal. Lett.*, 2009, 42(12):1820-30.

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