

## Seneciphylline Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Seneciphylline

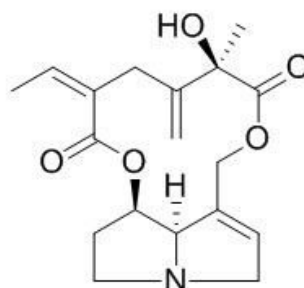
**Catalog No.:** CFN98747

**Cas No.:** 480-81-9

**Purity:** > 95%

**M.F:** C<sub>18</sub>H<sub>23</sub>NO<sub>5</sub>

**M.W:** 333.4



**Physical Description:** Powder

**Synonyms:** 13,19-Didehydro-12-hydroxysenecionan-11,16-dione; Seneciphyllin;  
trans-15-Ethylidene-12β-hydroxy-12α-methyl-13-methylenesenec-1-enine;  
(1,6)Dioxacyclododecino(2,3,4-gh)pyrrolizine-2,7-dione, 3-Ethylidene-3,4,5,6,9,11,13,14,14a,14b-decahydro-6-hydroxy-6-methyl-5-methylene-, (3Z,6R,14aR,14bR)-.

### [ 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 ]**

Seneciphylline and senkirkine, two pyrrolizidine alkaloids, have mutagenic activity in *Drosophila* and their transfer into rat milk.<sup>[1]</sup>

Seneciphylline, one of the hepatotoxic pyrrolizidine alkaloids, can induce a marked arterial and arteriolar hypertrophy of the lung of young Wistar rats a month after a single s. c. injection of 50–80 mg/kg.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[3]</sup>**

UPLC-MS:

Mobile phase: 0.1% Formic acid in water- Acetonitrile, gradient elution ;

Flow rate: 0.6 ml/min;

Column temperature: Room Temperature;

Flow rate of nebulization gas: 600 L/h;

Temperature of nebulization gas: 350 °C;

Flow rate of cone gas at 50 L/h;

Source temperature: 100 °C;

Capillary voltage: 2.8 kV;

Cone voltage: 35.0 V.

## **[ Storage ]**

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

## **[ References ]**

[1] Candrian U, Lüthy J, Graf U, *et al. Food Chem. Toxicol.*, 1984, 22(3):223-5.

[2] Ohtsubo K, Ito Y, Saito M, *et al. Experientia*, 1977, 33(4):498-9.

[3] Lin G, Wang J Y, Li N, *et al. J. Hepatol.*, 2011, 54(4):666-73.

## **[ Contact ]**

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