

Tracheloside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Tracheloside

Catalog No.: CFN90597

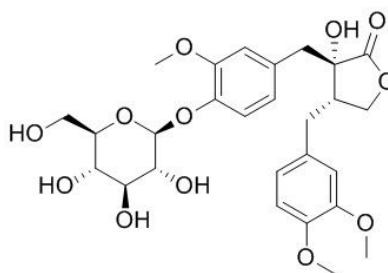
Cas No.: 33464-71-0

Purity: >=98%

M.F: C₂₇H₃₄O₁₂

M.W: 550.55

Physical Description: Powder



Synonyms: (3S,4S)-4-[(3,4-Dimethoxyphenyl)methyl]-3-[[4-(β-D-glucopyranosyloxy)-3-methoxyphenyl]methyl]-4,5-dihydro-3-hydroxyfuran-2(3H)-one; 2-Hydroxyarctiin.

[Intended Use]

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

[Source]

The herbs of *Trachelospermum jasminoides* (Lindl.) Lem.

[Biological Activity or Inhibitors]

Tracheloside, arctigenin and other lignan compounds, originated from *Saussurea salicifolia*, may be served as potential cancer chemopreventive agents for prevention or treatment of human cancers.^[1]

Tracheloside is an anti-estrogenic Lignan glycoside, it can significantly decrease the activity of alkaline phosphatase (AP), an estrogen-inducible marker enzyme, with an IC₅₀ value of 0.31 microg/ml, a level of inhibition comparable to that of tamoxifen (IC₅₀= microg/ml).^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O=25:75 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 240 nm.

[Storage]

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

[References]

[1] Kang K, Lee H J, Kim C Y, *et al. Biol. Pharmaceut. Bull.*, 2007, 30(12):2352-9.

[2] Yoo H H, Park J H, Kwon S W. *Biosci. Biotech. Biochem.*, 2014, 70(11):2783-5.

[3] Zhu S H, Tan X Q, Chen H S, *et al. China Pharmacist*, 2005, 8(12):1008-9.

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