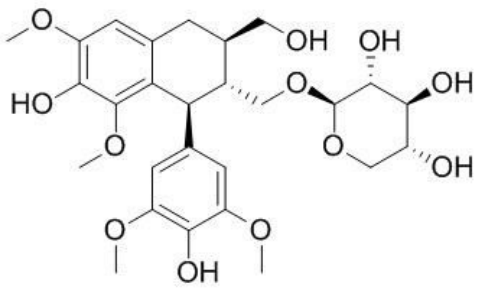
Natural Products

ChemFaces

Lyoniside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]



Name: Lyoniside

Catalog No.: CFN98451

Cas No.: 34425-25-7

Purity: > 98%

M.F: $C_{27}H_{36}O_{12}$

M.W: 552.6

Physical Description: Powder

Synonyms:[[(1S)-1α-(3,5-Dimethoxy-4-hydroxyphenyl)-3α-(hydroxymethyl)-6,8-dimethoxy-7-hydroxytetralin-2β-yl]methyl]β-D-xylopyranoside;(+)-Lyoniside.

[Intended Use]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;

5. Others.

[Source]

The stem barks of *Canarium bengalense.*

[Biological Activity or Inhibitors]

Lyoniside and saracoside are cytotoxic to promastigotes and intracellular amastigotes, they effectively kill L. donovani amastigotes inside macrophages in vitro , demonstrate strong anti-leishmanial efficacies in BALB/c mice model of leishmaniasis, suggests that these two compounds potential anti-leishmanial candidates. [1]

The synergistic action of lyoniside and triterpene acids was demonstrated in inhibitory effect exerted on germination and growth of Pinus sylvestris .[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: 0.1% Trifluoroacetic acid (TFA) H2O-Methanol, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Saha S, Mukherjee T, Chowdhury S, *et al. Biochem. Pharmacol., 2013, 86(12): 1673-87.*

[2] Szakiel A, Voutquenne-Nazabadioko L, Henry M. *Phytochem. Lett., 2011, 4(2):138-43.*

[3] Lee B, Jin B W, Yun B R, *et al. Pharm. Mag., 2014, 10(10):195-9.*

[Contact]

Address: **Email:** info@chemfaces.com

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com