

Isoastilbin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isoastilbin

Catalog No.: CFN98905

Cas No.: 54081-48-0

Purity: > 95%

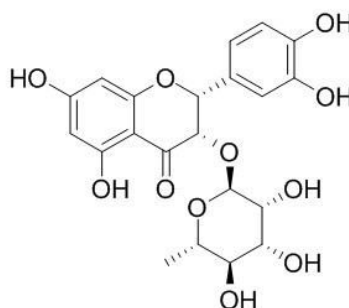
M.F: C₂₁H₂₂O₁₁

M.W: 450.39

Physical Description: Powder

Synonyms: (2R,3S)-2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4-oxo-3,4-dihydro-2

H-chromen-3-yl 6-deoxy- α -L-mannopyranoside.



[Intended Use]

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

[Source]

The rhizome of *Simlax glabra* Roxb.

[Biological Activity or Inhibitors]

Isoastilbin, neoastilbin, astilbin and taxifolin have antimicrobial activities, they depress the growth of *Streptococcus sobrinus* (*S. sobrinus*) over a concentration range of 9.32-42.7 ug/ml and show GTase inhibitory activity with IC₅₀ values in the range 27.4-57.3 ug/ml.^[1] Isoastilbin has anti-acne and tyrosinase inhibition properties.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Methanol -H₂O- Glacial acid=37:63:0.5;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 291 nm.

[Storage]

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

[References]

[1] Kuspradini H, Mitsunaga T, Ohashi H. *J. Wood Sci.*, 2009, 55(4):308-13.

[2] Batubara I, Kuspradini H, Mitsunaga T. *Wood Research Journal*, 2010, 1(1):45-9.

[3] Du Q, Li L, Jerz G. *J. Chromatogr. A*, 2005, 1077(1):98-101.

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