

D-(-)-Salicin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: D-(-)-Salicin

Catalog No.: CFN99541

Cas No.: 138-52-3

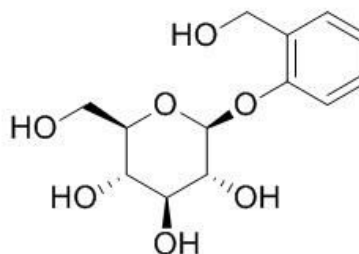
Purity: > 98%

M.F: C₁₃H₁₈O₇

M.W: 286.27

Physical Description: Yellow cryst.

Synonyms: (2R,3S,4R,5S,6S)-2-(hydroxymethyl)-6-[2-(hydroxymethyl)phenoxy]oxane-3,4,5-triol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Others.

[Source]

The peel of *Salix alba* L.

[Biological Activity or Inhibitors]

D(-)-Salicin is a traditional medicine which has been known to exhibit anti-inflammation and other therapeutic activities, it can inhibit the LPS-induced inflammation in RAW264.7 cells and mouse models, it might be a potential therapeutic agent against inflammatory diseases. ^[1]

β -d-Salicin is an interesting medicinal phytochemical that exhibits cross functions in plants and humans immunologically, it has attracted the attention of scientists in various interdisciplinary fields, including chemistry, pharmacology and medicine; the biological cross functions of β -d-salicin) serve in plant survival and healing processes via salicylic acid.^[2]

[Solvent]

Pyridine, Methanol, Hot water, etc.

[HPLC Method]^[3]

Mobile phase: H₂O-Tetrahydrofuran-ortho Phosphoric acid =97.7: 1.8: 0.5;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Yang L, Wu Q, Deng Y, *et al. Int. Immunopharmacol.*, 2015, 26(2):286-94.

[2] Mahdi J G. *Biotechnol. Rep.*, 2014, 4:73-9.

[3] A Güvenç, O Arıhan, ML Altun, *et al. Revista de Chimie -Bucharest- Original Edition-*,

2007, 58(1):8-12.

[Contact]

Address:

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

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com