

Asperulosidic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Asperulosidic acid

Catalog No.: CFN92108

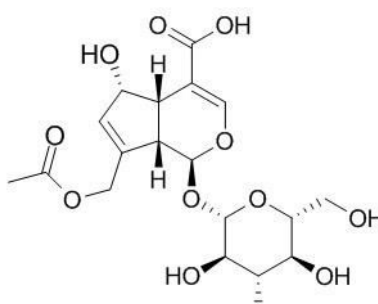
Cas No.: 25368-11-0

Purity: > 98%

M.F: C₁₈H₂₄O₁₂

M.W: 432.38

Physical Description: Powder



Synonyms: (1S,4aS,5S,7aS)-7-[(acetyloxy)methyl]-1-(β-D-glucopyranosyloxy)-5-hydroxy-1,4a,5,7a-tetrahydrocyclopenta[c]pyran-4-carboxylic acid.

[Intended Use]

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

[Source]

The herbs of *Hedyotis diffusa* Willd.

[Biological Activity or Inhibitors]

Asperulosidic acid isolated from *Hedyotis corymbosa* LAM., which has been recently used in chinese medicine as a useful drug against some tumors.^[1]

Asperulosidic acid has anticlastogenic activity, since the anticlastogenic irridoids have an alpha-unsaturated carbonyl group, this structure is considered to play an important role in the anticlastogenicity.^[2]

Asperulosidic acid, and 6-O-(beta-D-glucopyranosyl)-1-O-octanoyl-beta-D-glucopyranose are effective in suppressing 12-O-tetradecanoylphorbol-13-acetate (TPA)- or epidermal growth factor (EGF)-induced cell transformation and associated AP-1 activity. ^[3]

Asperulosidic acid can inhibit the seed germination and growth of seedlings of large crabgrass.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile - Aqueous buffer(containing 15 mM ortho-phosphoric acid and 1.5 mM tetrabutyl-ammonium hydroxide),gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Takagi S, Yamaki M, Masuda K, et al. *J. Pharm. Soc. Japan*, 1981, 101(7):657-9.

[2] Nakamura T, Nakazawa Y, Onizuka S, et al. *Mutation Research/fundamental & Molecular Mechanisms of Mutagenesis*, 1997, 388(1):7-20.

[3] Liu G, Bode A, Ma W Y, *et al. Cancer Res.*, 2001, 61(15):5749-56.

[4] Komai K, Iwamura J I, Hamada M, *et al. J. Weed Sci. Tech.*, 1986, 31:280-6.

[5] Berger A, Fasshuber H, Schinnerl J, *et al. J. Ethnopharmacol.*, 2011, 138(3):756-61.

[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