[Product Information]

Name: Asperulosidic acid
Catalog No.: CFN92108
Cas No.: 25368-11-0
Purity: > 98%
M.F: C_{18}H_{24}O_{12}
M.W: 432.38

Physical Description: Powder

Synonyms: (1S,4aS,5S,7aS)-7-[(acetyloxy)methyl]-1-(beta-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 Wild.

[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 iridoids 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 tetrabuty-lammonium 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]**


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