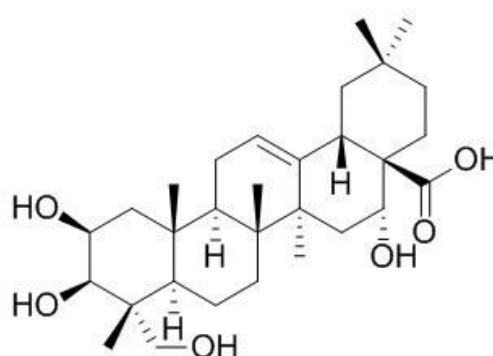


Polygalacic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Polygalacic acid**Catalog No.:** CFN99108**Cas No.:** 22338-71-2**Purity:** > 98%**M.F:** C₃₀H₄₈O₆**M.W:** 504.71**Physical Description:** Powder

Synonyms: (4aR,5R,6aR,6aS,6bR,9R,10R,11S,12aR,14bR)-5,10,11-trihydroxy-9-(hydroxymethyl)-2,2,6a,6b,9,12a-hexamethyl-1,3,4,5,6,6a,7,8,8a,10,11,12,13,14b-tetradecahydropicene-4a-carboxylic acid.

[Intended Use]

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

[Source]

The root of *Polygala tenuifolia* Willd.

[Biological Activity or Inhibitors]

Polygalacic acid(PA) significantly improves cholinergic system reactivity, as indicated by decreased acetylcholinesterase (AChE) activity, increases choline acetyltransferase (ChAT) activity, and elevates levels of acetylcholine (ACh) in the hippocampus and frontal cortex, PA also significantly ameliorates neuroinflammation and oxidative stress in mice; suggest that PA might exert a significant neuroprotective effect on cognitive impairment, driven in part by the modulation of cholinergic activity and neuroinflammation.^[1]

Polygalacic acid shows significant postingestive effects on *Spodoptera littoralis* larvae.^[2]

[Solvent]

Pyridine, DMSO, Methanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.2% Phosphoric acid H₂O=40:60;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Guo C, Shen J, Meng Z, *et al. Phytomed. Int. J. Phytother. Phytopharmacol.*, 2016, 23(2):149-55.

[2] Hernández-Carlos B, González-Coloma A, Ángel Ulises Orozco-Valencia, *et al. Phytochemistry*, 2011, 72(8):743-51.

[3] Liu S M, Fang Z Y, Zhou H X, *et al. Chinese Journal of Veterinary Drug*, 2009, 43(9): 8-10.

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