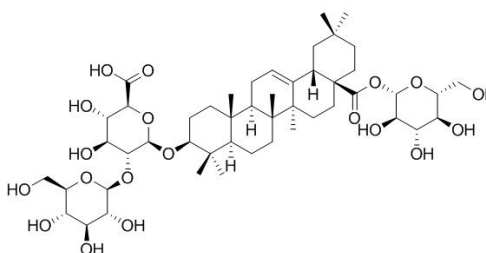


Saponin V Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Saponin V**Catalog No.:** CFN90781**Cas No.:** N/A**Purity:** >=95%**M.F:** C₄₈H₇₆O₁₉**M.W:** 957.1**Physical Description:** Powder**Synonyms:** Ophiogenin-3-O- α -L-rhamnosyl-(1 \rightarrow 2)- β -D-glucoside.**[Intended Use]**

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

[Source]The seeds of *Glycine max* (L.) Merr.**[Biological Activity or Inhibitors]**Saponin V (300,150,75 mg·kg⁻¹) can significantly decrease the times of cough, saponin

V 300 mg/kg can remarkably increase cough latent period, saponin V 5 g/L remarkably antagonized contraction of isolated ileum, saponin V 2.5 and 1.25 g/L antagonized trachea spasm in guinea pig induced by histamine; saponin V exhibits significant antitussive, expectorant and antispasmodic effects.^[1]

Chikusetsu saponin V can attenuate H₂O₂-induced oxidative stress in human neuroblastoma SH-SY5Y cells through Sirt1/PGC-1 α /Mn-SOD signaling pathways, suggests that chikusetsu saponin V exhibits neuroprotective effects.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- H₂O=23:77 ;

Flow rate: 1.0 ml/min;

Column temperature: 32 °C;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Liu T, Wang X H, Li C, *et al. Chin. Pharm. J.*, 2007, 42(20):1534-6.

[2] Wan J, Deng L, Zhang C, *et al. Can. J. Physiol. Pharm.*, 2016, 94(9):919-28.

[3] Hu J Y, Ma S C, Cheng X L, *et al. J.Pharmaceut.Ana.*, 2008 (4): 544-6.

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