

Gypenoside XVII Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Gypenoside XVII

Catalog No.: CFN90193

Cas No.: 80321-69-3

Purity: >=98%

M.F: C₄₈H₈₂O₁₈

M.W: 947.16

Physical Description: White powder

Synonyms: Gynosaponin S;

3beta-(beta-D-Glucopyranosyloxy)-12beta-hydroxy-5alpha-dammar-24-en-20-yl

6-O-beta-D-glucopyranosyl-beta-D-glucopyranoside;

(3beta,12beta)-3-(beta-D-Glucopyranosyloxy)-12-hydroxydammar-24-en-20-yl

6-O-beta-D-glucopyranosyl-beta-D-glucopyranoside.

[Intended Use]

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

[Source]

The roots of *Panax notoginseng (Burk.) F.H.Chen.*

[Biological Activity or Inhibitors]

Gypenoside XVII (GP-17) is a novel phytoestrogen isolated from Gynostemma

pentaphyllum or Panax notoginseng, GP-17 confers protection against A ß 25-35-induced

neurotoxicity through estrogen receptor-dependent activation of PI3K/Akt pathways,

inactivation of GSK-3 β and activation of Nrf2/ARE/HO-1 pathways, this finding might

provide novel insights into understanding the mechanism for neuroprotective effects of

phytoestrogens or gypenosides.[1]

Gypenoside XVII enhances lysosome biogenesis and autophagy flux and accelerates

autophagic clearance of Amyloid- β through transcription factor EB (TFEB) activation, it

ameliorates amyloid- β (A β)25-35-induced apoptosis in PC12 cells by regulating

autophagy, demonstrates that GP-17 conferred protective effects to the cellular and

rodent models of Alzheimer's disease by activating TFEB.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: Acetonitrile - H2O, gradient elution;

Flow rate: 1.6 ml/min:

Column temperature: Room Temperature;

The wave length of determination: 203 nm.

[Storage]

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

[References]

[1] Meng X, Wang M, Sun G, et al. Toxicol. Appl. Pharmacol., 2014, 279(1):63-75.

[2] Meng X, Luo Y, Liang T, et al. J. Alzheim Dis. Jad, 2016 Apr 5;52(3):1135-50.

[10] Cheng L Q, Na J R, Kim M K, et al. J.Microbiol. Biotech., 2007, 17(12):1937-43.

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