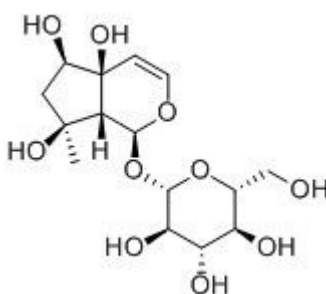


Harpagide Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Harpagide**Catalog No.:** CFN98148**Cas No.:** 6926-08-5**Purity:** >=98%**M.F:** C₁₅H₂₄O₁₀**M.W:** 364.35**Physical Description:** White powder**Synonyms:** (1S,4aS,5R,7S,7aR)-4a,5,7-Trihydroxy-7-methyl-1,4a,5,6,7,7a-hexahydrocyclopenta[c]pyran-1-yl 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 *Scrophularia ningpoensis* Hemsl.**[Biological Activity or Inhibitors]**

Harpagide and harpagoside are two iridoid glycosides existing in many medicinal plants, they are believed to be the main bioactive compounds related to the anti-inflammatory efficacy of these plants, the hydrolysis of the glycosidic bond of them is a pre-requisite step for their COX-2 inhibitory activity. [1]

Harpagide and Harpagoside have protective effects on human vascular endothelial cells(HUVECS) injury induced by hydrogen peroxide(H₂O₂).[2]

Harpagide has neuroprotective effect, it can obviously protect acute cerebral ischemia in mice,its therapeutical effects are approached to protecting the activity of brain mitochondria and decreasing protein expression level of caspase-3.[3]

Harpagide has a potential for prevention of bone loss in ovariectomized (OVX) mice by regulating the stimulation of osteoblast differentiation and the suppression of osteoclast formation, suggests that harpagide may serve as a bioactive compound for improvement of age-dependent bone destruction disease. [4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

Mobile phase: Methanol-0.03% Phosphoric acid, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Zhang L, Feng L, Jia Q,et al. *Bioorg. Med. Chem.*, 2011, 19(16):4882-6.

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[3] Ying X L, Zhong X M, Mu-Die X U, *et al. Journal of Chinese Pharmaceutical Sciences*, 2015, 50(12):1026-31.

[4] Chung H J, Kyung K W, Joo P H, *et al. J. Ethnopharmacol.*, 2015, 179:66-75.

[5] Qian Y J, Zhang C. *Chinese Traditional Patent Medicine*, 2015, 37(1):116-20.

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