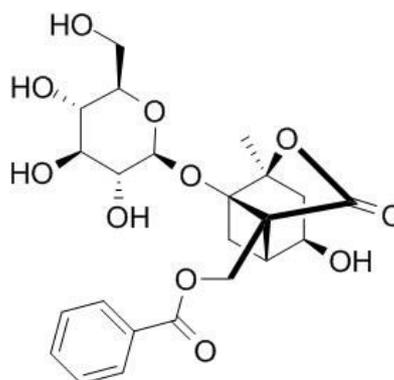


Albiflorin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Albiflorin**Catalog No.:** CFN99774**Cas No.:** 39011-90-0**Purity:** > 98%**M.F:** C₂₃H₂₈O₁₁**M.W:** 480.46**Physical Description:** White powder**Synonyms:** 9-((Benzoyloxy)methyl)-1-(beta-D-glucopyranosyloxy)-4-hydroxy-6-methyl-7-oxatricyclononan-8-one.**[Intended Use]**

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The roots of *Paeonia albiflora*.

[Biological Activity or Inhibitors]

Albiflorin, isolated from *Paeoniae Radix*, it enhances mitochondrial function to suppress antimycin A-induced oxidative damage via the preservation of cytochrome C and cardiolipin, indicates that albiflorin may reduce or prevent osteoblast degeneration in osteoporosis.^[1]

Albiflorin produces significant antidepressant-like effects, which are closely related to the hippocampal 5-HT/NE increase and expression, indicates that albiflorin could be a potential anti-depressant drug.^[2]

The administration of albiflorin can significantly ameliorate myelosuppression in all cases, it may promote the recovery of bone marrow hemopoietic function in a myelosuppressed mouse model.^[3,4]

Albiflorin, aloemodin and neohesperidin have inhibition of β -amyloid aggregation, they have neuroprotective effect on primary hippocampal cells against β -amyloid induced toxicity.^[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Acetonitrile-0.01%Phosphoric acid H₂O, gradient elution;

Flow rate: 1.0 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]

- [1] Suh K S, Choi E M, Lee Y S, *et al. Fitoterapia*, 2013, 89(7):33-41.
- [2] Wang Y L, Wang J X, Hu X X, *et al. J. Ethnopharmacol.*, 2016, 179:9-15.
- [3] Xu W, Zhou L, Ma X, *et al. Asian Pac. J. Cancer P.*, 2011, 12(8):2031-7.
- [4] Zhu Y, Wang L, Yang Z, *et al. Evid-based. Compl. Alt.* , 2016, 2016(15):1-8.
- [5] Ho S L, Poon C Y, Lin C, *et al. Curr. Alzheimer. Res.*, 2015, 12(5):424-33.
- [6] Sheng Y X, Li L, Wang Q, *et al. J. Pharmaceut. Biomed.* , 2005, 37(4):805-10.

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