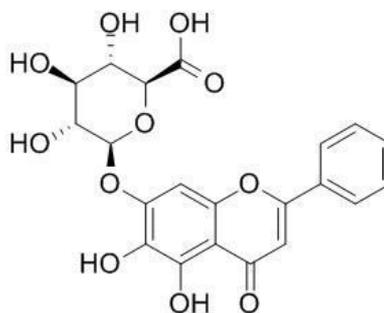


Baicalin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Baicalin**Catalog No.:** CFN99111**Cas No.:** 21967-41-9**Purity:** > 98%**M.F:** C₂₁H₁₈O₁₁**M.W:** 446.37**Physical Description:** Yellow powder**Synonyms:** Baicalein-7-O-glucuronide; 5,6-Dihydroxy-4-oxygen-2-phenyl-4H-1-benzopyran-7-β-D-glucopyranose acid.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The root of *Scutellaria baicalensis* Georgi.

[Biological Activity or Inhibitors]

Baicalin is a flavonoid and a major component of a herbal medicine, Sho-saiko-to, which is commonly used for treatment of chronic hepatitis in Japan and China. baicalin acts as

anti-oxidants, also causes cytotoxic effect, and induces caspase-3 activation and apoptosis via mitochondrial pathway.^[1]

Baicalin has anti-inflammatory activity, exhibits the greatest inhibition activity against carrageenan-induced rat paw edema.^[2]

Baicalin has neuroprotection, may be associated with its anti-oxidative and anti-apoptotic properties in global cerebral ischemia in the gerbils.^[3]

[Solvent]

Pyridine, DMSO, DMF, Ethanol, Methanol.

[HPLC Method]^[4]

Mobile phase: Methanol:H₂O=75:25;

Flow rate: 1.0 ml/min;

Column temperature: Room temperature;

The wave length of determination: 276 nm.

[Storage]

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

[References]

[1] Ueda S, Nakamura H, Masutani H, *et al. Mol. Immunol.*, 2002, 38(10):781-91.

[2] Chun-Ching Lin, Den-En Shieh. *Am. J. Chinese Med.*, 1996, 24(1):31-6.

[3] Cao Y, Mao X, Sun C, *et al. Brain Res. Bull.*, 2011, 85(6):396-402.

[4] Gu Y X, Zhou Z L, Yang Y M, *et al. Physical Testing & Chemical Analysis*, 2012(4).

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