Natural Products

Salvianolic acid B Datasheet

4th Edition (Revised in July, 2016)

[ Product Information ]

Name: Salvianolic acid B
Catalog No.: CFN99332
Cas No.: 115939-25-8
Purity: > 98%
M.F: C_{36}H_{30}O_{16}
M.W: 718.62

Physical Description: Oil

Synonyms: 2-[3-[3-[[1-carboxy-2-(3,4-dihydroxyphenyl)ethoxy]-oxomethyl]-2-(3,4-dihydroxyphenyl)-7-hydroxy-2,3-dihydrobenzofuran-4-y1]-1-oxoprop-2-en0xy]-3-(3,4-dihydroxyphenyl)propanoic acid.

[ Intended Use ]

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

[ Source ]
The root of *Salvia miltiorrhiza Bge.*

**[Biological Activity or Inhibitors]**
Salvianolic acid B (Sal-B) is a bioactive compound isolated from the Chinese medicinal herb Danshen, which is used for treating neoplastic and chronic inflammatory diseases in China. Sal-B inhibits COX-2 expression in cultured HNSCC cells and in HNSCC cells isolated from tumor xenografts, shows as a COX-2 targeted anticancer agent for HNSCC prevention and treatment.\(^1\)

Salvianolic acid B inhibits Abeta fibril formation and disaggregates preformed fibrils and protects against Abeta-induced cytotoxicity, inhibition of Abeta fibril aggregation as one possible method to halt the progression of Alzheimer’s disease (AD), so salvianolic acid B has therapeutic potential in the treatment of AD.\(^2\)

Salvianolic acid B exerts neuroprotective effects against H 2 O 2 toxicity, which might be of importance and contribute to its clinical efficacy for the treatment of neurodegenerative diseases.\(^3\)

Salvianolic acid B has antioxidative potential, can reduce the 6-hydroxydopamine-induced increase of caspase-3 activity, and reduce C translocation into the from mitochondria, may be effective in treating associated with oxidative stress.\(^4\)

Salvianolic acid B exerts various anti-oxidative and anti-inflammatory activities in in vitro and in vivo studies, SalB (25 mg/kg) can reduce brain edema, lesion volume and motor functional deficits, and improve spatial learning and memory abilities.\(^5\)

**[Solvent]**
Pyridine, DMSO, Ethanol, Methanol, Hot water.

**[HPLC Method]**
Mobile phase: Acetonitrile-0.1% Formic acid solution=21:79;

Flow rate: 1.0 ml/min;

Column temperature : 23 ℃;
The wave length of determination: 286 nm.

[ Storage ]

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

[ References ]


[ Contact ]

Address:  
S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China  

Email: info@chemfaces.com  
Tel: +86-27-84237783  
Fax: +86-27-84254680  
Web: www.chemfaces.com  
Tech Support: service@chemfaces.com