Natural Products

ChemFaces

Salvianolic acid C Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Salvianolic acid C

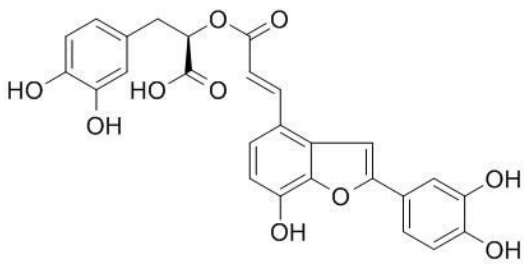
Catalog No.: CFN98553

Cas No.: 115841-09-3

Purity: >=98%

M.F: $C_{26}H_{20}O_{10}$

M.W: 492.44



Physical Description: Powder

Synonyms:(alphaR)-alpha-[[(2E)-3-[2-(3,4-Dihydroxyphenyl)-7-hydroxy-4-benzofuranyl]-1-oxo-2-propen-1-yl]oxy]-3,4-dihydroxybenzenepropanoic acid.

[Intended Use]

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

[Source]

The root of *Salvia miltiorrhiza Bge.*

[Biological Activity or Inhibitors]

Salvianolic acids(SA) are the most abundant water-soluble compounds extracted from Radix Salvia miltiorrhiza (Danshen), have multiple mechanisms for cardiovascular protection; the cardiovascular protection of SA is not only because salvianolic acids act as reactive oxygen species scavengers, but also due to the reduction of leukocyte-endothelial adherence, inhibition of inflammation and metalloproteinases expression from aortic smooth muscle cells, and indirect regulation of immune function; competitive binding of salvianolic acids to target proteins to interrupt protein-protein interactions has also been found to be a mechanism of cardiovascular protection by salvianolic acids.[1]

In vitro, Salvianolic acids inhibited significantly the platelet aggregation induced by collagen, ADP, and AA with IC50 values of 0.197, 2.22 and 3.29 x 10(3) mg/l, respectively; in vivo, doses of SA at 6 and 10 mg/kg body wt. inhibited significantly the platelet aggregation induced by collagen, and SA at 10 mg/kg body wt. inhibited remarkably platelet aggregation induced by ADP; suggest that SA could improve rCBF in the ischemic hemisphere and inhibit platelet aggregation in rats.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: Acetonitrile- 0.05% Trifluoroacetic acid H2O= 25:75;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 290 nm.

[Storage]

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

[References]

[1] Ho H C, Hong C Y. *J. Biomed.l Sci., 2011, 18(1):1-5.*

[2] Tang M K, Ren D C, Zhang J T, *et al. Phytomedicine, 2002, 9(5):405-9.*

[3] Chen J, Wang F, Lee F S, *et al. Talanta, 2006, 69(1):172-9.*

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