[ Product Information ]

Name: Avicularin

Catalog No.: CFN98961

Cas No.: 572-30-5

Purity: > 98%

M.F: C_{20}H_{18}O_{11}

M.W: 434.4

Physical Description: Yellow powder

Synonyms: 3-[(2S,3R,4R,5S)-3,4-dihydroxy-5-(hydroxymethyl)-2-oxolanyl]oxy]-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-1-benzopyran-4-one.

[ Intended Use ]

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

[ Source ]

The herbs of Polygonum aviculare.

[ Biological Activity or Inhibitors ]
Avicularin, is a plant flavonoid and a quercetin glycoside, it has hypoglycemic activity, it can inhibit the accumulation of the intracellular lipids by decreasing CCAAT/enhancer-binding protein (C/EBP)α-activated glucose transporter 4 (GLUT4)-mediated glucose uptake in adipocytes, it may have anti-diabetic activity.[1,2]

Avicularin exhibits anti-inflammatory activity through the suppression of ERK signaling pathway in LPS-stimulated RAW 264.7 macrophage cells.[3]

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

[ HPLC Method ][4]
Mobile phase: Acetonitrile- Phosphoric acid H2O(pH=3.0~3.5), gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 254 nm.

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

[ References ]