[ Product Information ]

Name: Wogonin  
Catalog No.: CFN97089  
Cas No.: 632-85-9  
Purity: > 98%  
M.F: C_{16}H_{12}O_{5}  
M.W: 284.3  

Physical Description: Yellow powder  
Synonyms: 5,7-Dihydroxy-8-methoxy-2-phenyl-1-benzopyran-4-one.

[ Intended Use ]

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

[ Source ]

The root of Scutellaria baicalensis Georgi.
[ Biological Activity or Inhibitors]

Wogonin is one major constituent of Scutellaria baicalensis, possesses potent anticancer activities, the activities are largely due to their abilities to scavenge oxidative radicals, to attenuate NF-kappaB activity, to inhibit several genes important for regulation of the cell cycle, to suppress COX-2 gene expression and to prevent viral infections. [1]

Wogonin and fisetin induce apoptosis in human promyeloleukemic cells, accompanied by a decrease of reactive oxygen species, and activation of caspase 3 and endonuclease, induction of bax protein and suppression of Mcl-1 protein were detected in the process.[2]

Wogonin, baicalin, and baicalein are three major components of Scutellaria, they have anti-inflammatory activity against carrageenan-induced paw edema in rats, the baicalin exhibits the greatest inhibition activity.[3]

Wogonin can suppress the VEGF-stimulated migration and tube formation of human umbilical vein endothelial cells (HUVECs), also restrain VEGF-induced tyrosine phosphorylation of vascular endothelial growth factor receptor 2 (VEGFR2), strongly suggests that wogonin might be a promising antitumor drug.[4]

Wogonin induces apoptosis in RPMI 8226, a human myeloma cell line, by downregulating phospho-Akt and overexpressing Bax.[5]

[ Solvent ]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[ HPLC Method ][6]

Mobile phase: Methanol-0.1%Phosphoric acid H2O gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 275 nm.

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

[ References ]


[ Contact ]

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