



Formula: C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>

MW: 270.24

CAS: 491-67-8

TNP NUMBER: TNP00121

MDL NUMBER: MFCD00017459

IUPAC: 5,6,7-trihydroxy-2-phenylchromen-4-one

Smiles: c12c(cc(c3ccccc3)oc2cc(c(c1O)O)O)=O

THERAPEUTIC CATEGORY: Astringent

REFERENCE: Merck Index, 12th Ed., 971

SOURCE: From root of *Scutellaria baicalensis*

ACCEPTORS: 5

DONORS: 3

ROTATION BONDS: 3

N+O: 5

Chiral Centers: 0

LogP: 1.74

LogS: -3.3

LIPINSKI: 4

Synonyms:

5,6,7-TRIHYDROXY-2-PHENYL-(4H)-1-BENZOPYRAN-4-ONE;5,6,7-TRIHYDROXYFLAVONE;  
4H-1-BENZOPYRAN-4-ONE,5,6,7-TRIHYDROXY-2-PHENYL-;BAICALEIN, 98+% BY  
HPLC;BAICALEIN4H-1-BENZOPYRAN-4-ONE,5,6,7-TRIHYDROXY-2-PHENYL-;Baicalein  
std.;5,6,7-Trihydroxyflavone,97%;Baicaleine

CAS:491-67-8

MF:C15H10O5

MW:270.24

EINECS:

Product Categories:Tri-substituted Flavones;The group of Scutellaria;Inhibitors Baicalein

Chemical Properties: mp 256-271 C(lit.) storage temp. 2-8C Merck 14,942 BRN 272683

CAS DataBase Reference: 491-67-8(

CAS DataBase Reference: ) Xi,Xn Risk Statements 36/37/38-20/21/22 Safety Statements  
26-36 WGK Germany 3 Hazard Note Irritant Baicalein

Usage And Synthesis:

Chemical Properties: Yellow Crystalline Solid UsageAn inhibitor of 12-lipoxygenase,  
leukotriene biosynthesis and release of lysosomal enzymes. It also inhibits cellular Ca<sup>2+</sup> uptake  
and mobilization and adjuvant-induced arthritis. Baicalein is the flavonoid component of  
Nepalese and Sino-Japanese crude d Biological ActivityInhibitor of 5- and platelet  
12-lipoxygenases (IC 50 values are 9.5 and 0.12 mM respectively). Also inhibits Raf-mediated  
MEK-1 phosphorylation in C6 rat glioma cells and induces G1 and G2 cell cycle arrest by  
decreasing cdk1, cdk2, cyclin D2 and cyclin A expression. Anti-inflammatory in vivo . Baicalein

