[ **Product Information** ]

Name: 6,7,4'-Trihydroxyisoflavone

Catalog No.: CFN90796

Cas No.: 17817-31-1

Purity: >=98%

M.F: C_{15}H_{10}O_{5}

M.W: 270.24

Physical Description: Powder

Synonyms: Demethyltexasin; 6,7-Dihydroxy-3-(4-hydroxyphenyl)-4H-chromen-4-one.

[ **Intended Use** ]

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

[ **Source** ]

The seeds of *Glycine max*.

[ **Biological Activity or Inhibitors** ]

6,7,4'-Trihydroxyisoflavone shows inhibitory activity against monophenolase activity of
mushroom tyrosinase, with IC50 values of 0.009±0.001 mM.[1]

6,7,4'-Trihydroxyisoflavone bound directly to cyclin-dependent kinase (CDK)1 and CDK2 in vivo, resulting in the suppression of CDK1 and CDK2 activity in tumors, it significantly decreased tumor growth, volume and weight of HCT-116 xenografts in a xenograft mouse model; suggests that CDK1 and CDK2 are potential molecular targets of 6,7,4'-THIF to suppress HCT-116 cell proliferation in vitro and in vivo.[2]

6,7,4'-Trihydroxyisoflavone can suppress adipogenesis in 3T3-L1 preadipocytes via ATP-competitive inhibition of PI3K. [3]

6,7,4'-Trihydroxyisoflavone exhibits significant antistaphylococcal effects against various standard strains and clinical isolates, including methicillin and tetracycline resistant ones with the MICs ranging from 16 to 128 ug ml(-1).[4]

[ Solvent ]
Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][5 ]
Mobile phase: 0.1% Formic acid in water- 0.1% Formic acid in acetonitrile, gradient elution;
Flow rate: 12 ml/min;
Column temperature: 30 ℃;
The wave length of determination: 254 nm.

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

[ References ]


[Contact]

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