[ Product Information ]

Name: Prunetin
Catalog No.: CFN90189
Cas No.: 552-59-0
Purity: >=98%
M.F: C_{16}H_{12}O_{5}
M.W: 284.26
Physical Description: Powder
Synonyms: 4’-5-Dihydroxy-7-methoxy-isoflavon; 5-Hydroxy-3-(4-hydroxyphenyl)-7-methoxy-4-benzopyrone.

[ Intended Use ]

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

[ Source ]

The herbs of Millettia dielsiana.

[ Biological Activity or Inhibitors ]
Prunetin, a prodrug of genistein that is a highly active cancer prevention agent, prunetin glucuronidation is species-, organ-, and UGT-isoform-dependent, all of which may be impacted by the thermostability of specific UGT isoforms involved in the metabolism.\[1\] Prunetin can regulate the secretion, production and gene expression of mucin, by directly acting on airway epithelial cells.\[2\] Prunetin can mediate anti-obesity/adipogenesis effects by suppressing obesity-related transcription through a feedback mechanism that regulates the expression of adiponectin, adipoR1, adipoR2, and AMPK.\[3\] Prunetin can significantly reduce serum levels of inflammatory cytokines and mortality in mice challenged with lipopolysaccharide, these findings offer a potential mechanism for the anti-inflammatory activity of prunetin.\[4\]

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

[HPLC Method]\[5\]
Mobile phase: 0.5% Acetic acid H2O-Methanol , 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]


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