Natural Products

ChemFaces

6'-O-Galloyl paeoniflorin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 6'-O-Galloyl paeoniflorin

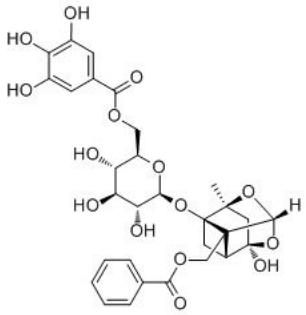
Catalog No.: CFN96175

Cas No.: 122965-41-7

Purity: 98%

M.F: $C_{30}H_{32}O_{15}$

M.W: 632.57



Physical Description: Powder

Synonyms: Galloylpaeoniflorin;[[(1aR)-5b β -[(Benzoyloxy)methyl]-3a β ,5,5a β ,5b-tetrahydro-5 β -hydroxy-2-methyl-2 α ,5 α -methano-3,4-dioxa-1H-cyclobuta[cd]pentalen]-1a β (2H)-yl]6-O-galloyl- β -D-glucopyranoside.

[Intended Use]

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

[Source]

The roots of *Paeonia lactiflora Pall.*

[Biological Activity or Inhibitors]

6'-O-galloylpaeoniflorin (GPF) demonstrates a significant scavenging capacity against the 1,1-diphenyl-2-picrylhydrazyl (DPPH) free radical, H2O2-generated intracellular reactive oxygen species (ROS), the superoxide anion radical (O2 -), and the hydroxyl radical (•OH); GPF also can safeguarde HaCaT keratinocytes against H2O2-provoked apoptotic cell death and attenuated oxidative macromolecular damage to DNA, lipids, and proteins; GPF exerts its cytoprotective actions in keratinocytes at least in part by decreasing the number of DNA strand breaks, the levels of 8-isoprostane (a stable end-product of lipid peroxidation), and the formation of carbonylated protein species; taken together, these results indicate that GPF may be developed as a cytoprotector against ROS-mediated oxidative stress.[1]

6'-O-galloylpaeoniflorin shows strong androgen receptor (AR) binding activity.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][2]

Mobile phase: Methanol -H2O=30:70 ;

Flow rate: 1.0 ml/min;

Column temperature:Room Temperature;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Cheng W Y, Mei J P, Kim K C, *et al. Biomol. Ther., 2013, 21(5):349-57.*

[2] Washida K, Itoh Y, Iwashita T, *et al. Chem. Pharm. Bull., 2009, 57(9):971-4.*

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