

Paeoniflorin

Catalog No: tcsc2497



Available Sizes

Size: 100mg

Size: 200mg



Specifications

CAS No:

23180-57-6

Formula:

$C_{23}H_{28}O_{11}$

Pathway:

Metabolic Enzyme/Protease

Target:

HIF/HIF Prolyl-Hydroxylase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 27 mg/mL (56.20 mM)

Alternative Names:

Peoniflorin

Observed Molecular Weight:

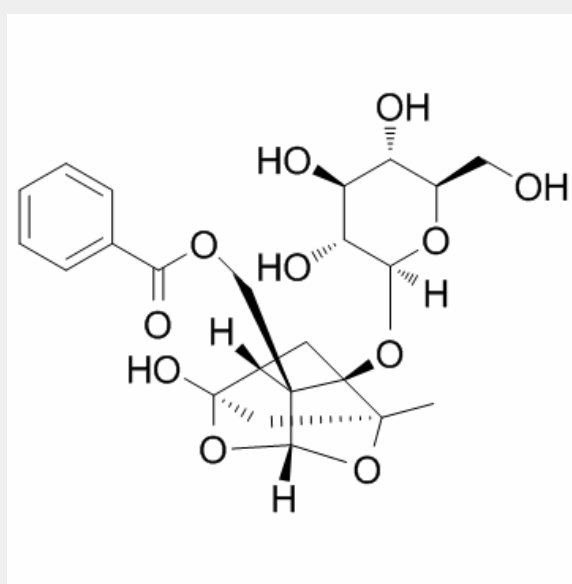
480.46

Product Description

Paeoniflorin is a herbal constituent extracted from the root of *Paeonia albiflora* Pall.

Target: Others

Paeoniflorin (PF) is the principal bioactive component of *Radix Paeoniae alba*, which is widely used in Traditional Chinese Medicine for the treatment of neurodegenerative disorders such as Parkinson's disease (PD) [1]. Paeoniflorin, a compound found in white peony that inhibited the production of testosterone and promoted the activity of aromatase, which converts testosterone into estrogen [2]. Treatment of cells with paeoniflorin but not glycyrrhizin resulted in enhanced phosphorylation and acquisition of the deoxyribonucleic acid-binding ability of heat shock transcription factor 1 (HSF1), as well as the formation of characteristic HSF1 granules in the nucleus, suggesting that the induction of HSPs by paeoniflorin is mediated by the activation of HSF1. Also, thermotolerance was induced by treatment with paeoniflorin but not glycyrrhizin. Paeoniflorin had no toxic effect at concentrations as high as 80 microg/ mL (166.4 microM). To our knowledge, this is the first report on the induction of HSPs by herbal medicines [3].



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