Esculin sesquihydrate

Cat. No.: HY-W166297

CAS No.: 66778-17-4

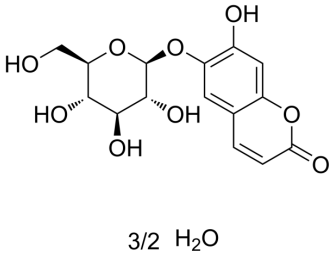
Molecular Formula: $C_{15}H_{16}O_9 \cdot 3/_2H_2O$

Molecular Weight: 367.31

Target: p38 MAPK

Pathway: MAPK/ERK Pathway

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Esculin sesquihydrate, a fluorescent coumarin glucoside, is an active ingredient of ash bark. Esculin sesquihydrate ameliorates cognitive impairment in experimental diabetic nephropathy (DN), and exerts anti?oxidative stress and anti?inflammatory effects, via the MAPK signaling pathway[1][2].

CUSTOMER VALIDATION

- Phytomedicine. 23 August 2021, 153687.
- Plant Direct. 2022 Sep 2;6(9):e442.

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REFERENCES

[1]. Knox K, et al. The Coumarin Glucoside, Esculin, Reveals Rapid Changes in Phloem-Transport Velocity in Response to Environmental Cues. Plant Physiol. 2018 Oct;178(2):795-807.

[2]. Song Y, et al. Esculin ameliorates cognitive impairment in experimental diabetic nephropathy and induces anti-oxidative stress and anti-inflammatory effects via the MAPK pathway. Mol Med Rep. 2018 May;17(5):7395-7402.

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