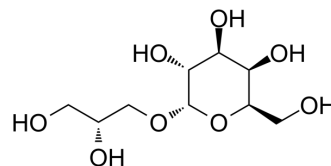


D-Isofloridoside

| | |
|--------------------|---|
| Cat. No.: | HY-N10176 |
| CAS No.: | 23202-76-8 |
| Molecular Formula: | C ₉ H ₁₈ O ₈ |
| Molecular Weight: | 254.23 |
| Target: | Reactive Oxygen Species; MMP |
| Pathway: | Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | D-Isofloridoside, one of the polysaccharide precursors, has the activity of scavenging free radicals, inhibiting ROS expression, and inhibiting MMP-2 and MMP-9 ^{[1][2]} . |
| In Vitro | D-Isofloridoside can reduce the activity of MMP-2/9, and can inhibit the expression of hypoxia-inducible factor-1α (HIF-1α) by regulating the downstream PI3K/AKT and MAPK pathways, thereby down-regulating the production of vascular endothelial growth factor (VEGF) in CoCl ₂ -induced HT1080 cell. D-Isofloridoside can inhibit the activation of VEGF receptor (VEGFR-2), regulate downstream PI3K/AKT, MAPK, NF-κB signal pathways, activate apoptosis, and thus down-regulate the production of platelet-derived growth factor (PDGF) in VEGF-induced HUVEC ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Yang S, et al. Mechanism Analysis of Antiangiogenic d-Isofloridoside from Marine Edible Red algae *Laurencia undulata* in HUVEC and HT1080 cell. *J Agric Food Chem*. 2021 Nov 12.

[2]. Yang S, et al. The Protective Effect of the Polysaccharide Precursor, D-Isofloridoside, from *Laurencia undulata* on Alcohol-Induced Hepatotoxicity in HepG2 Cells. *Molecules*. 2020;25(5):1024. Published 2020 Feb 25.

Caution: Product has not been fully validated for medical applications. For research use only.

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