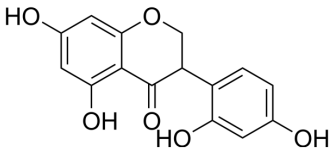
Dalbergioidin

Cat. No.:	HY-N3674
CAS No.:	30368-42-4
Molecular Formula:	$C_{15}H_{12}O_6$
Molecular Weight:	288.25
Target:	TGF-beta/Smad
Pathway:	Stem Cell/Wnt; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dalbergioidin, a well-known anthocyanin, ameliorates doxorubicin-induced renal fibrosis by suppressing the TGF-β signal pathway. Dalbergioidin exhibits tyrosinase inhibitory activity with an IC_{50} of 20 mM[1][2].
In Vitro	Dalbergioidin acts as a noncompetitive inhibitor. In addition, DBG shows a melanin biosynthesis inhibition zone in the culture plate of Streptomyces bikiniensis that has commonly been used as an indicator organism[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Seunghwa Baek, et al. Inhibitory effect of dalbergioidin isolated from the trunk of Lespedeza cyrtobotrya on melanin biosynthesis. J Microbiol Biotechnol. 2008 May;18(5):874-9.

[2]. Xianguo Ren, et al. Dalbergioidin Ameliorates Doxorubicin-Induced Renal Fibrosis by Suppressing the TGF- β Signal Pathway. Mediators Inflamm. 2016;2016:5147571.

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