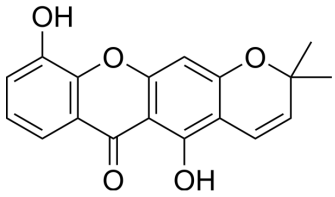
6-Deoxyjacareubin

Cat. No.:	HY-N2707
CAS No.:	16265-56-8
Molecular Formula:	$C_{18}H_{14}O_5$
Molecular Weight:	310.3
Target:	Reactive Oxygen Species
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	6-Deoxyjacareubin is a natural xanthone, that can be isolated from the leaves of Vismia latifolia. 6-Deoxyjacareubin protects against non-apoptotic cell death by inhibiting ROS production. 6-Deoxyjacareubin ameliorates neurodegeneration in a mouse model of familial amyotrophic lateral sclerosis (ALS)[1].
In Vitro	6-deoxyjacareubin inhibits cytotoxicity induced by sealed chamber hypoxia (1 % O_2) and chemically induced hypoxia ($CoCl_2$) in HEK293T cells and other types of cell lines such as HT1080 (human sarcoma cell line), Neuro2a (mouse neuroblastoma cell line), and MO3.13 (human oligodendrocytic cell line)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	6-Deoxyjacareubin (5 mg/kg□□□□□□□□7□□□□□□□1□□) □□□□□ ALS □□□□□□□□□□□□□□[1]□ MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male $SOD1^{G93A}$ mice (eight weeks)[1]
Dosage:	5 mg/kg
Administration:	Intraperitoneally (i.p.), every seven days for 1 month
Result:	Prolonged the survival time of $SOD1^{G93A}$ mice and improved their locomotor dysfunction. Suppressed glial activation and showed protective effect on motor neuron loss.

REFERENCES

[1]. Hoshino T, et al. 6-Deoxyjacareubin, a natural compound preventing hypoxia-induced cell death, ameliorates neurodegeneration in a mouse model of familial amyotrophic lateral sclerosis. Neurosci Res. 2021 Feb;163:43-51.

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