



# SZABO SCANDIC

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- Trockeneiszuschlag
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- Expressversand

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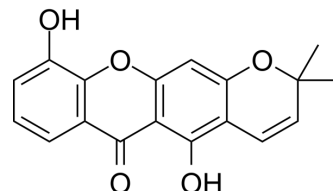
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## 6-Deoxyjacareubin

|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-N2707                                                                                         |
| CAS No.:           | 16265-56-8                                                                                       |
| Molecular Formula: | C <sub>18</sub> H <sub>14</sub> O <sub>5</sub>                                                   |
| Molecular Weight:  | 310.3                                                                                            |
| Target:            | Reactive Oxygen Species                                                                          |
| Pathway:           | Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB                                        |
| Storage:           | -20°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                   |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | 6-Deoxyjacareubin is a natural xanthone, that can be isolated from the leaves of <i>Vismia latifolia</i> . 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) <sup>[1]</sup> .                                                                                                                  |                                                                                                                                                                                   |
| In Vitro    | 6-deoxyjacareubin inhibits cytotoxicity induced by sealed chamber hypoxia (1 % O <sub>2</sub> ) and chemically induced hypoxia (CoCl <sub>2</sub> ) 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) <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |                                                                                                                                                                                   |
| In Vivo     | 6-Deoxyjacareubin (5 mg/kg, i.p., every seven days for 1 month) attenuates motor neuron loss in familial ALS model mice <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.                                                                                                                                                                                                             |                                                                                                                                                                                   |
|             | Animal Model:                                                                                                                                                                                                                                                                                                                                                                                                                                           | Male SOD1 <sup>G93A</sup> mice (eight weeks) <sup>[1]</sup>                                                                                                                       |
|             | Dosage:                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 mg/kg                                                                                                                                                                           |
|             | Administration:                                                                                                                                                                                                                                                                                                                                                                                                                                         | Intraperitoneally (i.p.), every seven days for 1 month                                                                                                                            |
|             | Result:                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Prolonged the survival time of SOD1 <sup>G93A</sup> 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.

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

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