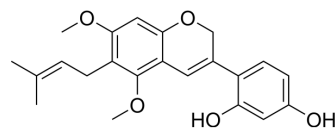


Dehydroglyasperin D

Cat. No.:	HY-N3716
CAS No.:	517885-72-2
Molecular Formula:	C ₂₂ H ₂₄ O ₅
Molecular Weight:	368.42
Target:	Aldose Reductase; COX
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dehydroglyasperin D inhibits rat and human Aldose Reductase (AR) (IC ₅₀ : 62.4 μM and 176.2 μM respectively). Dehydroglyasperin D has anti-obesity, antioxidant effects. Dehydroglyasperin D shows anti-inflammatory activity by inhibiting COX-2 expression and the MLK3 signaling pathway. Dehydroglyasperin D also inhibits melanin synthesis. Dehydroglyasperin D is a prenylated flavonoid that can be isolated from <i>Glycyrrhiza uralensis</i> ^{[1][2][3]} .
IC₅₀ & Target	COX-2 ^[1]

REFERENCES

- [1]. Lee YS, et al. Aldose reductase inhibitory compounds from *Glycyrrhiza uralensis*. *Biol Pharm Bull.* 2010;33(5):917-21.
- [2]. Jung SK, et al. MLK3 is a novel target of dehydroglyasperin D for the reduction in UVB-induced COX-2 expression in vitro and in vivo. *J Cell Mol Med.* 2015 Jan;19(1):135-42.
- [3]. Baek EJ, et al. Dehydroglyasperin D Suppresses Melanin Synthesis through MITF Degradation in Melanocytes. *J Microbiol Biotechnol.* 2022 Aug 28;32(8):982-988.

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

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