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Zuschläge

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- Trockeneiszuschlag
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- Expressversand

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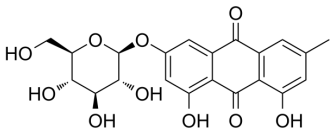
Emodin 6-O-β-D-glucoside

Cat. No.:	HY-N8126
CAS No.:	34298-85-6
Molecular Formula:	$C_{21}H_{20}O_{10}$
Molecular Weight:	432.38
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description

Emodin-6-O-β-D-glucoside (Glucoemodin) is an active compound from Reynoutria japonica. Emodin-6-O-β-D-glucoside shows potent anti-inflammatory and barrier protective effects. Emodin-6-O-β-D-glucoside can be used for the research of diabetic complications and atherosclerosis[1].

In Vitro

Emodin-6-O-β-D-glucoside (0~20 μM; 24 hours; HUVECs) does not affect cell viability[1].
Emodin-6-O-β-D-glucoside (0~10 μM; 6 hours; HUVECs) results in a dose dependent decrease in high glucose-mediated membrane disruption, inhibits high glucose-induced increase expression of VCAM-1, ICAM-1 and E-selectin and results in decreased expression levels of high glucose-induced MCP-1 and IL-8 mRNA[1].
Emodin-6-O-β-D-glucoside (10 μM; 6 hours; HUVECs) results in a decrease in the number of THP-1 cells adhering to high glucose-induced HUVECs[1].
Emodin-6-O-β-D-glucoside pretreatment significantly inhibits high-glucose-induced ROS formation and p65 NF-κB expression levels increase[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	HUVECs
Concentration:	0~20 μM
Incubation Time:	24 hours
Result:	Did not affect cell viability.

Western Blot Analysis[1]

Cell Line:	HUVECs
Concentration:	0~10 μM
Incubation Time:	6 hours
Result:	Inhibited high glucose-induced increase expression of VCAM-1, ICAM-1 and E-selectin.

RT-PCR[1]

Cell Line:	HUVECs
Concentration:	0~10 μM
Incubation Time:	6 hours
Result:	Resulted in decreased expression levels of high glucose-induced MCP-1 and IL-8 mRNA.

Immunofluorescence[1]

Cell Line:	HUVECs
Concentration:	10 μM
Incubation Time:	6 hours
Result:	Resulted in a decrease in the number of THP-1 cells adhering to high glucose-induced HUVECs.

In Vivo

Emodin-6-O-β-D-glucoside (0~9 mg/mouse; i.v.) markly inhibits peritoneal leakage of dye induced by high glucose[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mouse[1]
Dosage:	0~9 mg/mouse
Administration:	I.v.
Result:	Markly inhibited peritoneal leakage of dye induced by high glucose.

REFERENCES

[1]. Lee W, et al. Emodin-6-O-β-D--glucoside inhibits high-glucose-induced vascular inflammation. Inflammation. 2014;37(2):306-313.

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