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Zuschläge

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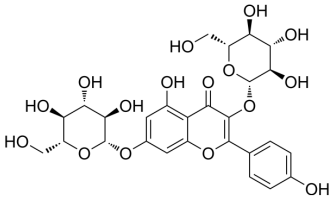
Kaempferol-3,7-di-O-β-glucoside

Cat. No.:	HY-N8161
CAS No.:	25615-14-9
Molecular Formula:	$C_{27}H_{30}O_{16}$
Molecular Weight:	610.52
Target:	Glucosidase; Cholinesterase (ChE)
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kaempferol-3,7-di-O-β-glucoside (Kaempferol 3,7-diglucoside), a flavonol, possesses enzyme inhibition property towards α-amylase, α-glucosidase and Acetylcholinesterase. Kaempferol-3,7-di-O-β-glucoside protects differentiating neuronal cells, SH-SY5Y from Amyloid β peptide-induced injury. Kaempferol-3,7-di-O-β-glucoside has the potential for Alzheimer's research [1].
In Vitro	Kaempferol-3,7-di-O-β-glucoside (Kaempferol 3,7-diglucoside; 0.1, 100 μM) has effective inhibition in Aβ1-42 fibril formation. Kaempferol-3,7-di-O-β-glucoside has less neurotoxicity on the cultured SH-SY5Y cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pavithra Mettupalayam Kaliyannan Sundaramoorthy, et al. Extraction, isolation and identification of kaempferol 3,7 – Diglucoside in the leaf extracts of Evolvulus alsinoides (Linn.) and its inhibition potency against α-amylase, α-glucosidase, Acetylcholinesterase and amyloid aggregation. ORIGINAL ARTICLE, 2020,Volume : 16.

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