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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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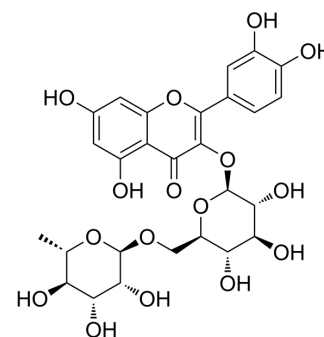
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Rutin (Standard)

Cat. No.:	HY-N0148R
CAS No.:	153-18-4
Molecular Formula:	C ₂₇ H ₃₀ O ₁₆
Molecular Weight:	610.52
Target:	Endogenous Metabolite; Autophagy; Amyloid-β; Apoptosis
Pathway:	Metabolic Enzyme/Protease; Autophagy; Neuronal Signaling; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rutin (Standard) is the analytical standard of Rutin. This product is intended for research and analytical applications. Rutin (Rutoside) is a flavonoid found in many plants and shows a wide range of biological activities including anti-inflammatory, antidiabetic, antioxidant, neuroprotective, nephroprotective, hepatoprotective and reducing Aβ oligomer activities. Rutin is also a CBR1 inhibitor, which can cross the blood brain barrier. Rutin attenuates vancomycin-induced renal tubular cell apoptosis via suppression of apoptosis, mitochondrial dysfunction, and oxidative stress ^{[1][2][3][4][5]} .
IC₅₀ & Target	CBR1 ^[5]

REFERENCES

- [1]. Ghorbani A. Mechanisms of antidiabetic effects of flavonoid rutin. *Biomed Pharmacother.* 2017;96:305-312.
- [2]. Habtemariam S. Rutin as a Natural Therapy for Alzheimer's Disease: Insights into its Mechanisms of Action. *Curr Med Chem.* 2016;23(9):860-873.
- [3]. Xu PX, et al. Rutin improves spatial memory in Alzheimer's disease transgenic mice by reducing Aβ oligomer level and attenuating oxidative stress and neuroinflammation. *Behav Brain Res.* 2014;264:173-180.
- [4]. Abdel-Aleem GA, et al. Rutin hydrate ameliorates cadmium chloride-induced spatial memory loss and neural apoptosis in rats by enhancing levels of acetylcholine, inhibiting JNK and ERK1/2 activation and activating mTOR signalling. *Arch Physiol Biochem.* 2018;124(4):367-377.
- [5]. Carlquist M, et al. Flavonoids as inhibitors of human carbonyl reductase 1. *Chem Biol Interact.* 2008 Jul 30;174(2):98-108.

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

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