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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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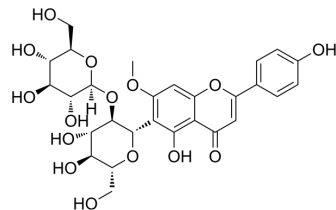
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Spinosin

Cat. No.:	HY-N0651
CAS No.:	72063-39-9
Molecular Formula:	C ₂₈ H ₃₂ O ₁₅
Molecular Weight:	608.54
Target:	Amyloid-β
Pathway:	Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (410.82 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions	1 mM	1 mg	5 mg	10 mg
		5 mM	0.3287 mL	1.6433 mL	3.2866 mL
		10 mM	0.1643 mL	0.8216 mL	1.6433 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.42 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Spinosin is a kind of effective C-saccharide, which has a protective effect. Spinosin is active through Nrf2/HO-1 pathway inhibition Aβ ₁₋₄₂ 's production and combination ^{[1][2][3]} .
In Vitro	Spinosin (0-400 μM; 24 h) is safe within the range of 0-100 μM for both N2a/WT and N2a/APP695 cells ^[2] . Spinosin (6.25-25 μM; 24 h) down-regulates the expression level of APP, the precursor protein to produce Aβ in N2a/WT and N2a/APP695; and also increases the level of Nrf2 and HO-1 protein ^[2] . Spinosin (10 μM; 24 h) inhibits the oligomerization and fibrillation of Aβ ₁₋₄₂ and reduces its toxicity induced by Aβ (20 μM) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Spinosin (10, 20 mg/kg; po; single dose) significantly ameliorates Scopolamine (HY-N0296) (1 mg/kg, i.p.)-induced cognitive impairment and memory impairment in mouse behavioral tasks ^[1] .

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

REFERENCES

- [1]. Jung IH, et al. Ameliorating effect of spinosin, a C-glycoside flavonoid, on scopolamine-induced memory impairment in mice. *Pharmacol Biochem Behav.* 2014 May;120:88-94.
- [2]. Xu F, et al. Neuroprotective Effects of Spinosin on Recovery of Learning and Memory in a Mouse Model of Alzheimer's Disease. *Biomol Ther (Seoul).* 2019 Jan 1;27(1):71-77.
- [3]. Zhang X, et al. Spinosin Inhibits A β 1-42 Production and Aggregation via Activating Nrf2/HO-1 Pathway. *Biomol Ther (Seoul).* 2019 Dec 3.
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Caution: Product has not been fully validated for medical applications. For research use only.

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