



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

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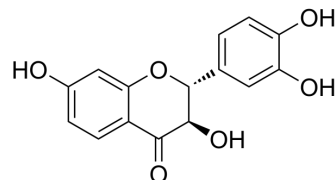
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## Fustin

<b>Cat. No.:</b>	HY-N8376	
<b>CAS No.:</b>	20725-03-5	
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>12</sub> O <sub>6</sub>	
<b>Molecular Weight:</b>	288.25	
<b>Target:</b>	Amyloid-β; mAChR; Cholinesterase (ChE)	
<b>Pathway:</b>	Neuronal Signaling; GPCR/G Protein	
<b>Storage:</b>	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### BIOLOGICAL ACTIVITY

#### Description

Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) is a potent amyloid β (Aβ) inhibitor. Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) increases the expression of acetylcholine (ACh) levels, choline acetyltransferase (ChAT) activity, and ChAT gene induced by Aβ (1-42). Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) decreases in acetyl cholinesterase (AChE) activity and AChE gene expression induced by Aβ (1-42). Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) increases muscarinic M1 receptor gene expression and muscarinic M1 receptor binding activity. Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) can be used for Alzheimer's disease research<sup>[1]</sup>.

#### In Vivo

Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) (50-100 mg/kg; p.o.; daily, for 11days; Aβ-treated C57BL/6 mice) attenuates Aβ (1-42)-induced impairments in conditioned fear learning and passive avoidance behavior<sup>[1]</sup>.  
 Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) (50-100 mg/kg; p.o.; daily, for 11days; Aβ-treated C57BL/6 mice) alters Aβ (1-42)-induced changes in ACh level and AChE and ChAT activity and gene expression<sup>[1]</sup>.  
 Fustinis ((±)-Fustin; 3,7,3',4'-Tetrahydroxyflavanone) (50-100 mg/kg; p.o.; daily, for 11days; Aβ-treated C57BL/6 mice) increases Aβ (1-42)-induced reduction in M1 receptor mRNA and protein expression in Aβ-treated C57BL/6 mice. Fustin increases p-ERK and p-CREB expression in Aβ-treated C57BL/6 mice<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Aβ-treated C57BL/6 mice <sup>[1]</sup>
Dosage:	50 and 100 mg/kg
Administration:	Oral administration;daily, for 11days
Result:	Decreased freezing response in Aβ-treated C57BL/6 mice.
Animal Model:	Aβ-treated C57BL/6 mice <sup>[1]</sup>
Dosage:	50 and 100 mg/kg
Administration:	Oral administration;daily, for 11days
Result:	Increased the expression of Ach, ChAT gene and ChAT activity. Decreased the expression of AChE gene and AChE activity.

Animal Model:	A $\beta$ -treated C57BL/6 mice <sup>[1]</sup>
Dosage:	50 and 100 mg/kg
Administration:	Oral administration;daily, for 11days
Result:	Increased gene expression of M2- , M3- ,M4- , M5- , $\alpha$ 4 $\beta$ , $\alpha$ 7-receptor, p-ERK and p-CREB.

## REFERENCES

[1]. Jin CH, et, al. Fustin flavonoid attenuates beta-amyloid (1-42)-induced learning impairment. J Neurosci Res. 2009 Dec;87(16):3658-70.

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

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