



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

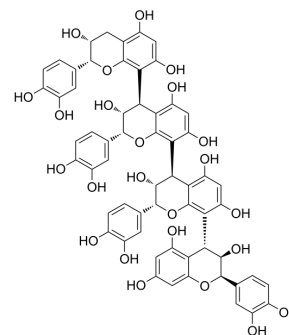
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Cinnamtannin A2

Cat. No.:	HY-N9536
CAS No.:	86631-38-1
Molecular Formula:	C ₆₀ H ₅₀ O ₂₄
Molecular Weight:	1155.02
Target:	GLP Receptor
Pathway:	GPCR/G Protein
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Cinnamtannin A2, a tetrameric procyanidin, can increase GLP-1 and insulin secretion in mice. Cinnamtannin A2 could upregulate the expression of corticotrophin releasing hormone. Cinnamtannin A2 exhibits antioxidant, anti-diabetic and nephroprotective effect ^{[1][2]} .								
In Vitro	Cinnamtannin A2 (0.125-2.0 µg/mL) inhibits LDL oxidation induced by copper ions or MeO-AMVN ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	<p>Cinnamtannin A2 (10 mg/kg; i.p. for 30 days) ameliorates the level of KIM1 and NAGL in 5/6 nephrectomized rats by regulating Nrf2- Keap1 pathway^[2].</p> <p>Cinnamtannin A2 (10 µg/kg; p.o.) increases the secretion of insulin and glucagon-like peptide-1 (GLP-1) in plasma of mice^[1].</p> <p>Cinnamtannin A2 (10 µg/kg; p.o.) significantly promotes phosphorylation of both IRB and IRS-1 in mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Male Sprague-Dawley rats (250-300 g) were induced chronic renal failure (CRF) by removing the kidneys^[2]</td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p. for 30 days</td> </tr> <tr> <td>Result:</td> <td> <p>Ameliorated the altered level of creatinine, blood urea nitrogen, Neutrophil gelatinase-associated lipocalin, Kidney Injury Molecule-1 and cytokines in the serum and microalbuminuria.</p> <p>Reduced the oxidative stress level.</p> <p>Attenuated the altered expression of proteins involved in Nrf2-Keap1 pathway in the kidney tissue.</p> <p>Reduced the tubular injury score in the kidney tissue.</p> </td> </tr> </table>	Animal Model:	Male Sprague-Dawley rats (250-300 g) were induced chronic renal failure (CRF) by removing the kidneys ^[2]	Dosage:	10 mg/kg	Administration:	i.p. for 30 days	Result:	<p>Ameliorated the altered level of creatinine, blood urea nitrogen, Neutrophil gelatinase-associated lipocalin, Kidney Injury Molecule-1 and cytokines in the serum and microalbuminuria.</p> <p>Reduced the oxidative stress level.</p> <p>Attenuated the altered expression of proteins involved in Nrf2-Keap1 pathway in the kidney tissue.</p> <p>Reduced the tubular injury score in the kidney tissue.</p>
Animal Model:	Male Sprague-Dawley rats (250-300 g) were induced chronic renal failure (CRF) by removing the kidneys ^[2]								
Dosage:	10 mg/kg								
Administration:	i.p. for 30 days								
Result:	<p>Ameliorated the altered level of creatinine, blood urea nitrogen, Neutrophil gelatinase-associated lipocalin, Kidney Injury Molecule-1 and cytokines in the serum and microalbuminuria.</p> <p>Reduced the oxidative stress level.</p> <p>Attenuated the altered expression of proteins involved in Nrf2-Keap1 pathway in the kidney tissue.</p> <p>Reduced the tubular injury score in the kidney tissue.</p>								

REFERENCES

[1]. Yamashita Y, et, al. Cinnamtannin A2, a tetrameric procyanidin, increases GLP-1 and insulin secretion in mice. Biosci Biotechnol Biochem. 2013;77(4):888-91.

[2]. Li N, et, al. Cinnamtannin A2 protects the renal injury by attenuates the altered expression of kidney injury molecule 1 (KIM-1) and neutrophil gelatinase-associated lipocalin (NGAL) expression in 5/6 nephrectomized rat model. *AMB Express*. 2020 May 8;10(1):87.

[3]. Osakabe N, et, al. Catechins and their oligomers linked by C4 --> C8 bonds are major cacao polyphenols and protect low-density lipoprotein from oxidation in vitro. *Exp Biol Med (Maywood)*. 2002 Jan;227(1):51-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA