



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

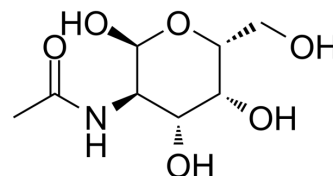
mail@szabo-scandic.com

www.szabo-scandic.com

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

N-Acetyl-D-galactosamine, 98%

Cat. No.:	HY-128852
CAS No.:	14215-68-0
Molecular Formula:	C ₈ H ₁₅ NO ₆
Molecular Weight:	221.21
Target:	Galectin; Endogenous Metabolite
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (565.07 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.5206 mL	22.6030 mL	45.2059 mL
	5 mM		0.9041 mL	4.5206 mL	9.0412 mL
	10 mM		0.4521 mL	2.2603 mL	4.5206 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

N-Acetyl-D-galactosamine (GalNAc) is a terminal essential amino sugar derived from galactose and forms the antigens of blood group A in humans. N-Acetyl-D-galactosamine (GalNAc) interact with Soya bean agglutinin (SBA), hence decreasing the effects of SBA on cellular membrane permeability and tight junction protein expression in piglets^[1]. N-Acetyl-D-galactosamine (GalNAc) inhibits the hemagglutinating activity by the lectin^[2].

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

N-Acetyl-D-galactosamine (GalNAc) (50nm; 4 hours) decreases the expression of occludin mRNA and claudin-3 mRNA by 1.6% and 2.7%^[1].
N-Acetyl-D-galactosamine (GalNAc) (50nm; 4 hours) lowers the protein expression of occludin and claudin-3 by 4.3% and 7.2%, respectively^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
RT-PCR^[1]

Cell Line:	IPEC-J2 cell
Concentration:	50 nM
Incubation Time:	4 hours
Result:	Observed a slight reduction in mRNA expression of occludin and claudin-3.
Western Blot Analysis ^[1]	
Cell Line:	IPEC-J2 cell
Concentration:	50 nM
Incubation Time:	4 hours
Result:	Alleviated the damage of tight junction expressions at protein level.

REFERENCES

- [1]. Zhao B, et al. N-Acetyl-d-galactosamine prevents soya bean agglutinin-induced intestinal barrier dysfunction in intestinal porcine epithelial cells. J Anim Physiol Anim Nutr (Berl). 2019 Jul;103(4):1198-1206.
- [2]. Sadanandan R, et al. Isolation, Purification and Characterisation of a D-galactose and N-acetyl-D-galactosamine Specific Lectin from Marine Sponge Fasciospongia cavernosa. Protein Pept Lett. 2018;25(9):871-877.

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