

Product Data Sheet

Product Name: N-Acetyl-D-galactosamine, 98%

Cat. No.: GC72987

Chemical Properties

Cas. No. 14215-68-0

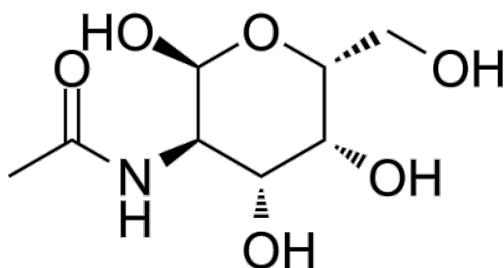
Formula $C_8H_{15}NO_6$ M.Wt 221.21

Solubility H_2O : 125 mg/mL (565.07 mM; Need ultrasonic) Storage $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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. N-Acetyl-D-galactosamine (GalNAc) inhibits the hemagglutinating activity by the lectin.

N-Acetyl-D-galactosamine (GalNAc) (50nm; 4 hours) decreases the expression of occludin mRNA

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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].

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 Psiol 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: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA