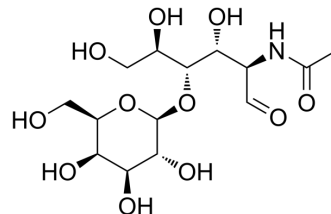


N-Acetyllactosamine

Cat. No.:	HY-126854
CAS No.:	32181-59-2
Molecular Formula:	C ₁₄ H ₂₅ NO ₁₁
Molecular Weight:	383.35
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (260.86 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.6086 mL	13.0429 mL	26.0858 mL	
5 mM	0.5217 mL	2.6086 mL	5.2172 mL	
10 mM	0.2609 mL	1.3043 mL	2.6086 mL	

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

BIOLOGICAL ACTIVITY

Description

N-Acetyllactosamine (LacNAc), a nitrogen-containing disaccharide, is an important component of various oligosaccharides such as glycoproteins and sialyl Lewis X. N-Acetyllactosamine can be used as the starting material for the synthesis of various oligosaccharides. N-Acetyllactosamine has prebiotic effects^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

- [1]. Endo T, Koizumi S, Tabata K, Kakita S, Ozaki A. Large-scale production of N-acetyllactosamine through bacterial coupling. *Carbohydr Res.* 1999 Mar 31;316(1-4):179-83.
- [2]. M.Karimi Alavijeh, et al. Simulation and economic assessment of large-scale enzymatic N-acetyllactosamine manufacture. *Biochemical Engineering Journal.* Volume 154, 15 February 2020, 107459

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