N-Acetyllactosamine

Cat. No.: HY-126854

CAS No.: 32181-59-2

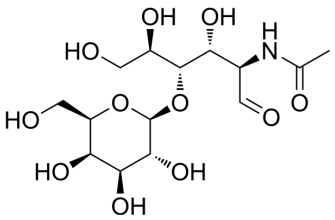
Molecular Formula: $C_{14}H_{25}NO_{11}$

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

H_2O : 100 mg/mL (260.86 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	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].

IC_{50} & 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.

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