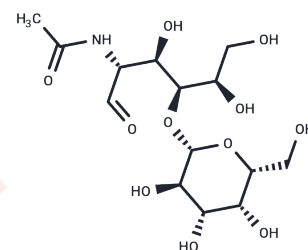


## N-acetyl-D-Lactosamine

## Chemical Properties

CAS No. :	32181-59-2
Formula:	C <sub>14</sub> H <sub>25</sub> NO <sub>11</sub>
Molecular Weight:	383.35
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	N-acetyl-D-Lactosamine (N-Acetyllactosamine) is a disaccharide consisting of galactose and N-acetylglucose, which is an important component of various oligosaccharides and can be used as a starting material for the synthesis of various oligosaccharides. N-acetyl-D-Lactosamine may be used as a structural element naturally in various sugar conjugates and can also be used to characterise lectins, which have probiotic effect.
Targets(IC50)	Endogenous Metabolite, Galectin
In vitro	N-acetyl-D-Lactosamine (10 microg/ml) was a potent mitogen towards human peripheral blood mononuclear cells.[3] N-acetyl-D-Lactosamine (100 microg/ml) has 50% growth inhibitory potential towards SiHa (human cervix ) cancer cell line.[3]

## Solubility Information

Solubility	DMF: 0.5 mg/mL (1.3 mM), Sonication is recommended. PBS (pH 7.2): 10 mg/mL (26.09 mM), Sonication is recommended. H <sub>2</sub> O: 90 mg/mL (234.77 mM), Sonication is recommended. Ethanol: Slightly soluble DMSO: 30 mg/mL (78.26 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0522 mL	0.2609 mL	0.5217 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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