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**Product Data Sheet**

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Product Name: N,N'-Diacetylchitobiose

Cat. No.: GC61104

**Chemical Properties**

Cas. No. 35061-50-8

SMILES O=C[C@H](NC(C)=O)[C@H]([C@@H]([C@@H](CO)O)O[C@H]1[C@H](NC(C)=O)[C@H]([C@@H]([C@@H](CO)O1)O)O)OFormula C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>11</sub> M.Wt 424.4Solubility H<sub>2</sub>O : 125 mg/mL (294.53 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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,N'-Diacetylchitobiose is a dimer of  $\beta(1,4)$  linked N-acetyl-D glucosamine. N,N'-Diacetylchitobiose is the hydrolysate of chitin and can be used as alternative carbon source by E. coli[1].

[1]. Fangmeng Chu, et al. An optimized cocktail of chitinolytic enzymes to produce N,N'-diacetylchitobiose and N-acetyl-d-glucosamine from defatted krill by-products. Int J Biol Macromol. 2019 Jul 15;133:1029-1034.

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

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