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**Product Data Sheet**

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Product Name: 2'-O,4'-C-Methylenecytidine

Cat. No.: GC66654

**Chemical Properties**

Cas. No. 206055-69-8

Formula  $C_{10}H_{13}N_3O_5$  M.Wt 255.23

Solubility 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**

2'-O,4'-C-Methylenecytidine (LNA-C(Bz)) is a bicyclic nucleoside analogue with fixed N-type conformation. 2'-O,4'-C-Methylenecytidine can be used to synthesize oligonucleotides. 2'-O,4'-C-Methylenecytidine forms duplexes with complementary DNA and RNA strands<sup>[1][2]</sup>.

[1]. bicyclic nucleoside analogue, N-type conformation, synthesize oligonucleotides, duplexes

[2]. Obika S, et, al. Stability and structural features of the duplexes containing nucleoside analogues with a fixed N-type conformation, 2'-O,4'-C-methylenecytidines. Tetrahedron Letters. 1998 Jul 23; 39(30):5401-04.

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

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