Product Data Sheet

Product Name: 2'-O,4'-C-Methyleneguanosine
Cat. No.: GC66655

Chemical Properties

Cas. No.	207131-16-6		
Formula	$C_{11}H_{13}N_5O_5$	M.Wt	295.25
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	2'-O,4'-C-Methyleneguanosine		

Background

2′-O,4′-C-Methyleneguanosine (LNA-G) is a reverse guanine analogue, where LNA (locked nucleic acid) is a nucleic acid analogue. LNA modification can be used in a variety of applications such as effective binding affinity to complementary sequences and greater nuclease resistance than natural nucleotides, offering great potential for applications in disease diagnosis and research. LNA-G is also available via KOD DNA polymerase, which allows the integration of LNA-G nucleotides into the DNA strand[1][2].

[1]. Rakesh N. Veedu, et al. Polymerase directed incorporation studies of LNA-G nucleoside 5′-triphosphate and primer extension involving all four LNAnucleotides. New J. Chem., 2010,34, 877-879
[2]. Haase L, et al. Locked nucleic acid building blocks as versatile tools for advanced G-quadruplex design. Nucleic Acids Res. 2020 Oct 9;48(18):10555-10566.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA