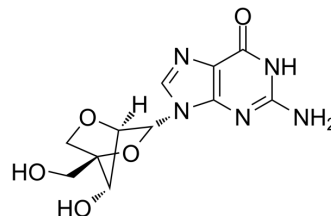


## 2'-O,4'-C-Methyleneguanosine

Cat. No.:	HY-W406070
CAS No.:	207131-16-6
Molecular Formula:	C <sub>11</sub> H <sub>13</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight:	295.25
Target:	Nucleoside Antimetabolite/Analog; DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

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<sup>[1][2]</sup>.

### REFERENCES

[1]. Rakesh N. Veedu, et al. Polymerase directed incorporation studies of LNA-G nucleoside 5'-triphosphate and primer extension involving all four LNA nucleotides. *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.

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

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