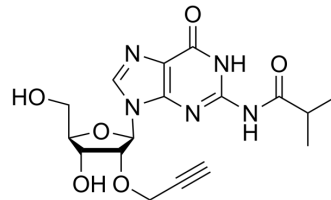


## N2-iso-Butyroyl-2'-O-propargylguanosine

Cat. No.:	HY-154349
CAS No.:	2095417-55-1
Molecular Formula:	C <sub>17</sub> H <sub>21</sub> N <sub>5</sub> O <sub>6</sub>
Molecular Weight:	391.38
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

N2-iso-Butyroyl-2'-O-propargylguanosine is a guanosine analog. Some guanosine analogs have immunostimulatory activity. In some animal models, they also induce type I interferons, producing antiviral effects. Studies have shown that the functional activity of guanosine analogs is dependent on the activation of Toll-like receptor 7 (TLR7)<sup>[1]</sup>. N2-iso-Butyroyl-2'-O-propargylguanosine is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

### REFERENCES

[1]. Lee J, et al. Molecular basis for the immunostimulatory activity of guanine nucleoside analogs: activation of Toll-like receptor 7. Proc Natl Acad Sci U S A. 2003 May 27;100(11):6646-51.

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

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