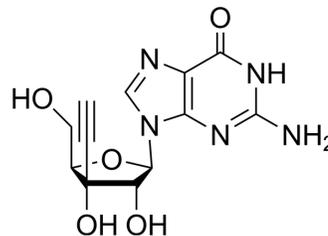


## 3'-β-C-Ethynylguanosine

Cat. No.:	HY-152478
CAS No.:	180300-56-5
Molecular Formula:	C <sub>12</sub> H <sub>13</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight:	307.26
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

3'-β-C-Ethynylguanosine 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>. 3'-β-C-Ethynylguanosine 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]. Robak T, Robak P. Purine nucleoside analogs in the treatment of rarer chronic lymphoid leukemias. *Curr Pharm Des.* 2012;18(23):3373-88.
- [2]. 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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