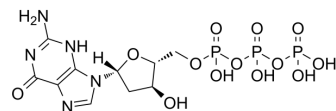


## dGTP

Cat. No.:	HY-138616
CAS No.:	2564-35-4
Molecular Formula:	C <sub>10</sub> H <sub>16</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub>
Molecular Weight:	507.18
Target:	DNA/RNA Synthesis; 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

dGTP (2'-Deoxyguanosine-5'-triphosphate), a guanosine nucleotide, can be used in deoxyribonucleic acid synthesis. Guanosine nucleotides (GDP, GTP, dGDP, and dGTP) are highly susceptible to oxidative damage to 8-oxo-GDP (8-O-GDP), 8-O-dGTP, 8-O-GTP, and 8-O-dGTP<sup>[1]</sup>.

## REFERENCES

[1]. Kapoor I, et al. Nucleoside Diphosphate Kinase Escalates A-to-C Mutations in MutT-Deficient Strains of Escherichia coli. J Bacteriol. 2019;202(1):e00567-19. Published 2019 Dec 6.

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

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