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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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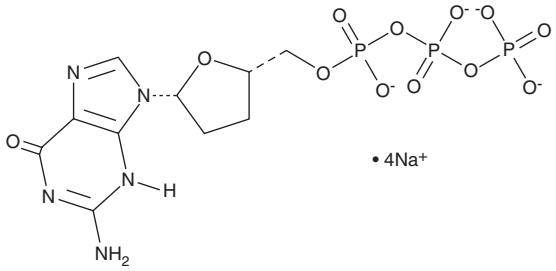
PRODUCT INFORMATION

2',3'-Dideoxyguanosine-5'-O-triphosphate (sodium salt)

Item No. 38375

Formal Name:	2′,3′-dideoxy-guanosine 5′-(tetrahydrogen triphosphate), tetrasodium salt
Synonym:	ddGTP
MF:	$C_{10}H_{12}N_5O_{12}P_3 \bullet 4Na$
FW:	579.1
Purity:	≥95%
Supplied as:	A solution in water
Storage:	-80°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

2',3'-Dideoxyguanosine-5'-O-triphosphate (ddGTP) is a reverse transcriptase inhibitor (K_is = 13 and 6.7 nM for the visna virus and HIV-1 enzymes, respectively).[1,2] ddGTP has been used in the synthesis of oligonucleotides containing a terminal ddG that are resistant to cleavage by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) exonuclease.[3] ddGTP has also been used to terminate chain extension produced by the *Taq* polymerase in PCR assays.[4]

References

1. Frank, K.B., McKernan, P.A., Smith, R.A., *et al.* Visna virus as an in vitro model for human immunodeficiency virus and inhibition by ribavirin, phosphonoformate, and 2',3'-dideoxynucleosides. *Antimicrob. Agents Chemother.* **31(9),** 1369-1374 (1987).
2. Ueno, T., Shirasaka, T., and Mitsuya, H. Enzymatic characterization of human immunodeficiency virus type 1 reverse transcriptase resistant to multiple 2',3'-dideoxynucleoside 5'-triphosphates. *J. Biol. Chem.* **270(40),** 23605-23611 (1995).
3. Wang, X., Tao, C., Morozova, I., *et al.* Identifying structural features of nucleotide analogues to overcome SARS-CoV-2 exonuclease activity. *Viruses* **14(7),** 1413 (2022).
4. Li, Y., Mitaxov, V., and Waksman, G. Structure-based design of Taq DNA polymerases with improved properties of dideoxynucleotide incorporation. *Proc. Natl. Acad. Sci. USA* **96(17),** 9491-9496 (1999).

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