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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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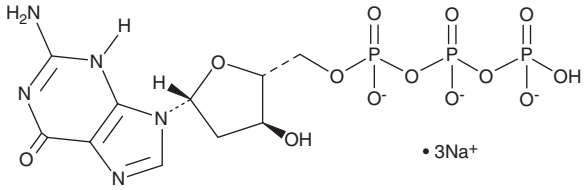
PRODUCT INFORMATION

2'-Deoxyguanosine-5'-triphosphate (sodium salt)

Item No. 35771

CAS Registry No.: 93919-41-6
Formal Name: 2′-deoxy-guanosine 5′-(tetrahydrogen triphosphate), trisodium salt
Synonym: dGTP
MF: $C_{10}H_{13}N_5O_{13}P_3 \bullet 3Na$
FW: 573.1
Purity: ≥95%
UV/Vis.: λ_{max}: 253 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

2'-Deoxyguanosine-5'-triphosphate (dGTP) (sodium salt) is supplied as a solid. Aqueous solutions of dGTP (sodium salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of dGTP (sodium salt) in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

dGTP is a nucleoside triphosphate.[1] It has commonly been used in PCR reaction mixtures as a substrate for DNA synthesis by DNA polymerases. dGTP can be oxidized to 8-hydroxy-dGTP and 8-oxo-7,8-GTP, which can be misincorporated into DNA.[2]

References

1. Mohsen, M.G., Ji, D., and Kool, E.T. Polymerase synthesis of four-base DNA from two stable dimeric nucleotides. *Nucleic Acids Res.* **47(18)**, 9495-9501 (2019).
2. Kamiya, H. Mutagenicity of oxidized DNA precursors in living cells: Roles of nucleotide pool sanitization and DNA repair enzymes, and translesion synthesis DNA polymerases. *Mutat. Res.* **703(1)**, 32-36 (2010).

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