

cellco cellco

cellco



cellco



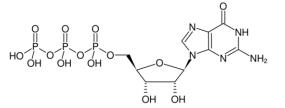
DATA SHEET

GTP Solid (>90%)

cellco

Guanosine - 5' - triphosphate, Sodium salt

Cat. Nº.	Amount
□ NUC-205S	1 g
□ NUC-205M	10 g
□ NUC-205L	100 g





For in vitro use only!

Shipping:

Shipped on blue ice

Storage Conditions:

Store at -20 °C

Additional Storage Conditions:

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life:

12 months

Molecular Formula: $C_{10}H_{16}N_5O_{14}P_3$ (free acid)

Molecular Weight: 523,18 g/mol (free acid)

Exact Mass: 522,99 g/mol (free acid)

CAS#: 56001-37-7

Purity: ≥ 90 % (HPLC)

Form: lyophilised

Spectroscopic Properties:

 λ_{max} = 252 nm; ϵ = 14.2 L mmol⁻¹.cm⁻¹ (Tris-HCl pH 7.0)

Applications:

Assembly of ribosomal units^[1] Microdomain formation by small GTPases^[2] Antiviral activity of large GTPases (dynamin superfamily)^[3] Regulation of exocytosis by Rho GTPases^[4] Mechanism of hydrolysis by ADP-ribosylation factors^[5]

Specific Ligands:

Guanylate binding proteins^[6] Yeast septins^[7]

Quality Control Specifications:

In vitro transcription (T7 RNA polymerase): visible RNA fragments after 5 min incubation, Dnases, RNases, Nicking Activity: not detectable, Proteases: not detectable

Selected References:

[1] Blombach et al. (2011) Assembling the archeal ribosome: roles for transition factor-related GTPases. Biochemical Society Transactions 39:45.

[2] Stuermer (2011) Microdomain-forming proteins and the role of the reggies/flottilins during axon regeneration in zebrafish. Biochimica Biophysica Acta, Molecular Basis of Disease **1812**:415.

[3] Haller et al. (2011) Human MxA protein: An Interferoninduced Dynamin-like GTPase with broad antiviral activity. J. Interferon and Cytokine Research 31:79.

[4] Stephane et al. (2011) Rho GTPases and exocytosis: what are the molecular links? Seminars in Cell and Developmental Biology **22**:27.

[5] East et al. (2011) Models for the function of Arf GAPs. Seminars in Cell and Developmentan Biology 22:3.

[6] Vestal et al. (2011) The guanylate binding proteins: Emerging insights into the biochemical properties and functions of this family of large interferon-induced guanosine triphosphatase. J. Interferon and Cytokine Research 31:89.

[7] Younghoon et al. (2011) Septin structure and function in yeast and beyond. Trends in Cell Biology 21:141.



Page 1 of 1 Last update: 06/2022