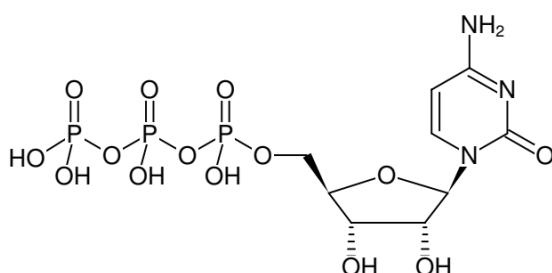


DATA SHEET

**CTP Solid (>98%)**

Cytidine - 5'-triphosphate, Sodium salt

Cat. Nº.	Amount
<input type="checkbox"/> NUC-2045	1 g
<input type="checkbox"/> NUC-204M	10 g
<input type="checkbox"/> NUC-204L	100 g



Structural formula of CTP Solid

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:C₉H₁₆N₃O₁₄P₃ (free acid)**Molecular Weight:**

483.16 g/mol (free acid)

CAS#:

36051-68-0

Purity:

≥ 95 % (HPLC)

Form:

lyophilised

Spectroscopic Properties: λ_{\max} = 271 nm; ϵ = 8.9 L mmol⁻¹.cm⁻¹ (Tris-HCl pH 7.0)**Applications:**Physiological role in coronary artery disease^[1]Physiological role in lipid metabolism^[2]Physiological role in farnesol induced apoptosis^[3]**Specific Ligands:**CTP synthase^[4]Phosphocholine cytidyltransferase alpha^[2]Ligand for purinergic receptors:P2Y6^[5]P2X3^[6]**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] Lui et al. (2010) Evaluation of CT perfusion in setting of cerebral ischemia: patterns and pitfalls. American Journal of Neuroradiology **31**:1552.[2] Luoma (2010) Gene activation regresses arteriosclerosis, promotes health, and enhances longevity. Lipids in health and disease **9**:67.[3] Joo et al. (2010) Molecular mechanisms involved in farnesol-induced apoptosis. Cancer letters **287**:123.[4] Cabeen et al. (2010) A metabolic assembly line in bacteria. Nature Cell Biology **12**:731.[5] Jayasekara et al. (2013) 4-Alkoxyimino-cytosine nucleotides: tethering approaches to molecular probes for the P2Y6 receptor. Med Chem Comm. **4** (8):1156.[6] Garzia-Guzman et al. (1997) Molecular characterization and pharmacological properties of the human P2X3 purinoreceptor. Mol. Brain Res. **47** (1):59.[7] Spangler et al. (2011) Interaction of the diguanylate cyclase YdeH of Escherichia coli with 2', (3')-substituted purine and pyrimidine nucleotides. J. Pharmacol. Exp. Ther. **336** (1):234