DATA SHEET

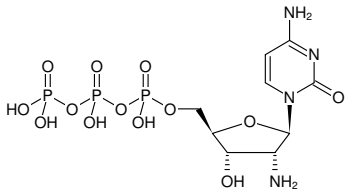
Jena Bioscience

2'NH_2-dCTP

2'-Amino-dCTP

2'-Amino-2'-deoxycytidine-5'-triphosphate, Sodium salt

Cat. No.	Amount
NU-243S	50 µl (100 mM)
NU-243L	5 x 50 µl (100 mM)



Structural formula of 2'NH_2-dCTP

For general laboratory use.

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

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

Shelf Life: 12 months after date of delivery

Molecular Formula: $C_9H_{17}N_4O_{13}P_3$ (free acid)

Molecular Weight: 482.17 g/mol (free acid)

Exact Mass: 482.00 g/mol (free acid)

Purity: ≥ 95 % (HPLC)

Form: solution in water

Color: colorless to slightly yellow

Concentration: 100 mM - 110 mM

pH: 7.5 ±0.5

Spectroscopic Properties: λ_{max} 271 nm, ε 9.1 L $mmol^{-1}$ cm^{-1} (Tris-HCl pH 7.5)

Selected References:

Govindan *et al.* (2012) P2Y receptor subtypes evoke different Ca^{2+} signals in cultured aortic smooth muscle cells. *Purinergic Signalling* **8**:763.

Lauridsen *et al.* (2012) Enzymatic recognition of 2'-modified ribonucleoside 5'-triphosphates: towards the evolution of versatile aptamers. *ChemBioChem* **13**:19.

Kanwar *et al.* (2011) Chimeric aptamers in cancer cell-targeted drug delivery. *Crit. Rev. Biochem. Mol. Biol.* **46 (6)**:459.

Teramoto *et al.* (2001) Peroxidase activity of in vitro-selected 2'-amino RNAs. *Biotechnology and Bioengineering* **75 (4)**:463.

Lin *et al.* (1994) Modified RNA sequence pools for in vitro selection. *Nucleic Acids Research* **22 (24)**:5229.