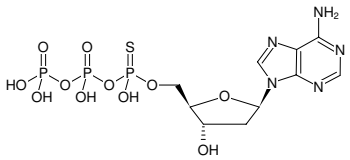
DATA SHEET

Jena Bioscience

dATPαS

2'-Deoxyadenosine-5'-(α-thio)-triphosphate, Sodium salt; (1 : 1 Mixture of R_p and S_p isomers)

Cat. No.	Amount
NU-426S	100 µl (10 mM)
NU-426L	5 x 100 µl (10 mM)



Structural formula of dATPαS

For research use only!

Shipping: shipped on blue ice

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: $C_{10}H_{16}N_5O_{11}P_3S$ (free acid)

Molecular Weight: 507.24 g/mol (free acid)

Exact Mass: 506.98 g/mol (free acid)

CAS#: 64145-28-4

Purity: ≥ 95 % (HPLC)

Form: clear aqueous solution

Concentration: 10 mM - 11 mM

pH: 7.5 ±0.5

Spectroscopic Properties: λ_{max} 259 nm, ε 15.4 L $mmol^{-1}$ cm^{-1} (Tris-HCl pH 7.5)

Selected References:

Gaur *et al.* (1993) Enzymatic RNA synthesis with deoxynucleoside 5'-O-(1-thiotriphosphates). *FEBS Lett.* **315 (1)**:56.

Abbotts *et al.* (1988) Studies on the mechanism of Escherichia coli DNA polymerase I large fragment. Effect of template sequence and substrate variation on termination of synthesis. *J. Biol. Chem.* **263 (29)**:15094.

Nakamaye *et al.* (1988) Direct sequencing of polymerase chain reaction amplified DNA fragments through the incorporation of deoxynucleoside alpha-thiotriphosphates. *Nucleic Acids Res.* **16 (21)**:9947.

Nyren *et al.* (1997) Detection of single-base changes using a bioluminometric primer extension assay. *Anal. Biochem.* **244 (2)**:367.