

**DCK, 1-260aa, Human, His tag, E.coli**

**Cat.NO.: TP01836**

3th Edition

**Synonyms:**Deoxycytidine kinase,dCK

**Description:**DCK is a key enzyme in the salvage of deoxyribonucleosides and in the activation of clinically relevant nucleoside analogues. This protein is responsible for the 5`-phosphorylation of purine and pyrimidine deoxynucleosides to the corresponding monophosphates using ATP or UTP as phosphate donors. Deficiency of this enzyme activity is associated with resistance to antiviral and anticancer chemotherapeutic agents, whereas increased enzyme activity is associated with increased activation of these compounds to cytotoxic nucleoside triphosphate derivatives.

**Form:**Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT,0.1 mM PMSF, 2mM EDTA, 10% Glycerol

**Molecular Weight:**34.6 kDa(296aa), confirmed by MALDI-TOF

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMATPPKRSCPSFSASSEGTRIKKISIEGNIAAGKSTFV  
NILKQLCEDWEVVPEPVARWCNVQSTQDEFEELTMSQKNGGNVLQMMYEKPERWSFTFQTYACLSRIRAQLASL  
NGKLKDAEKPVLFERSVYSDRYIFASNLYESECNETEWTIYQDWHDMNNQFGQSLELDGIYQLQATPETCLHR  
IYLRGRNEEQGIPLEYLEKLHYKHESWLLHRTLKTNFDYQLQEVPILTLDVNEDFKDKYESLVEKVKEFLSTL

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.