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DCK Human

Catalog #:PKPS-320

For research use only.

Description:DCK Human Recombinant fused with a 36 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 296 amino acids (1-260 a.a.) and having a molecular mass of 34.6kDa. The DCK is purified by proprietary chromatographic techniques.

Synonyms: Deoxycytidine kinase, DCK, MGC117410, MGC138632.

Source: Escherichia Coli.

Physical Appearance:DCK is supplied as a sterile filtered clear solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMATP PKRSCPSFSA SSEGTRIKKI SIEGNIAAGK STFVNILKQL CEDWEVVPEP VARWCNVQST QDEFEELTMS QKNGGNVLQM MYEKPERWSF TFQTYACLSR IRAQLASLNG KLKDAEKPVL FFERSVYSDR YIFASNLYES ECMNETEWTI YQDWHDWMNN QFGQSLELDG IIYLQATPET CLHRIYLRGR NE

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The DCK solution (0.5 mg/ml) contains 20mM Tris-HCl Buffer (pH 7.5), 1mM DTT, 0.1mM PMSF, 2mM EDTA and 10% Glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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

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