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## Product Data Sheet

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Product Name: DCK Human  
 Cat. No.: GP22479  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Deoxycytidine kinase; DCK; MGC117410; MGC138632.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMATP PKRSCPSFSA SSEGTRIKKI SIEGNIAAGK STFVNILKQL CEDWEVPEP VARWCNVQST QDEFEELTMS QKNGGNVLQM MYEKPERWSF TFQTYACLSR IRAQLASLNG KLKDAEKPVL FFERSVYS DR YIFASNLYES ECMNETEWTI YQDWHDW MNN QFGQSLELDG IYLQATPET CLHRIYLRGR NEEQGIPLEY LEKLHYKHES WLLHRTLKTN FDY LQEVPI L TLDVNEDFKD KYESLVEKVK EFLSTL.		
Formulation	The DCK solution (0.5mg/ml) contains 20mM Tris-HCl Buffer (pH 7.5), 1mM DTT, 0.1mM PMSF, 2mM EDTA and 10% Glycerol.		

### 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.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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