

Recombinant Human DCK Protein, His-tagged

Cat. No. DCK-27365TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCK protein (1-260aa), fused with His-tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-260 a.a.
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. Recombinant human DCK protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Form	Liquid
Molecular Mass	34.6 kDa
AA Sequence	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMATPPKRSCPSFSASSE GTRIKKISIEGNIAAGKSTFVNILKQLCEDWEVVPEPVARWCNVQSTQDEFEELTMS

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QKNGGNVLQMMYEKPERWSFTFQTYACLSRIRAQLASLNGKLDKDAEKPVLFERSV
 YSDRYIFASNLYESECMNETEWTIYQDWHDWMMNNQFGQSLELDGIIYLQATPETCL
 HRIYLRGRNEEQGIPLEYLEKLHYKHESWLLHRTLKTNFDYLQEVPILTLDVNEDFKD
 KYESLVEKVKEFLSTL

Purity > 90% by SDS-PAGE

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

Concentration 0.5 mg/mL (determined by Bradford assay)

Storage Buffer In 20 mM Tris-HCl Buffer (pH 7.5) containing 1 mM DTT, 0.1 mM PMSF, 2mM EDTA, 10% Glycerol

GENE INFORMATION

Gene Name [DCK deoxycytidine kinase \[Homo sapiens \(human\) \]](#)

Official Symbol [DCK](#)

Synonyms DCK; deoxycytidine kinase; deoxycytidine kinase; deoxynucleoside kinase; EC 2.7.1.74

Gene ID [1633](#)

mRNA Refseq [NM_000788](#)

Protein Refseq [NP_000779](#)

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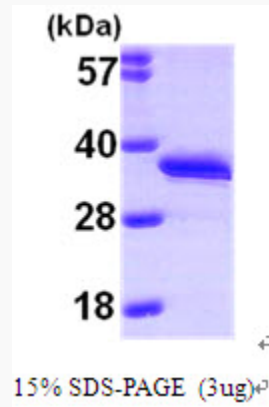
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MIM 125450

UniProt ID P27707

SDS-PAGE



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