Recombinant Human DCK, GST-tagged

Cat. No. DCK-11853H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCK protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-260a.a.
Description	Deoxycytidine kinase (DCK) is required for the phosphorylation of several deoxyribonucleosides and their nucleoside analogs. Deficiency of DCK is associated with resistance to antiviral and anticancer chemotherapeutic agents. Conversely, increased deoxycytidine kinase activity is associated with increased activation of these compounds to cytotoxic nucleoside triphosphate derivatives. DCK is clinically important because of its relationship to drug resistance and sensitivity.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	DCK deoxycytidine kinase [Homo sapiens]

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Official Symbol	DCK
Synonyms	DCK; deoxycytidine kinase; deoxynucleoside kinase; MGC117410; MGC138632;
Gene ID	1633
mRNA Refseq	NM_000788
Protein Refseq	NP_000779
MIM	125450
UniProt ID	P27707
Chromosome Location	4q13.3-q21.1
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Purine salvage, organism-specific biosystem;
Function	ATP binding; deoxycytidine kinase activity; drug binding; kinase activity; magnesium ion binding; nucleoside kinase activity; nucleotide binding; phosphotransferase activity, alcohol group as acceptor; protein homodimerization activity; pyrimidine deoxyri

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