

Recombinant Human DCK, His-tagged

Cat. No. DCK-796H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCK, fused with N-terminal polyhistidine tag, was expressed in Sf9 cells.
Species	Human
Source	Sf9 Cells
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.
Molecular Mass	30 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	50mM Tris-HCl pH8.0, 150mM NaCl, 20% glycerol. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

GENE INFORMATION

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Gene Name	DCK deoxycytidine kinase [Homo sapiens (human)]
Official Symbol	DCK
Synonyms	DCK; deoxycytidine kinase; MGC117410; MGC138632; OTTHUMP00000219118; OTTHUMP00000219119; EC 2.7.1.74
Gene ID	1633
mRNA Refseq	NM_000788
Protein Refseq	NP_000779
MIM	125450
UniProt ID	P27707
Chromosome Location	4q13.3-q21.1
Pathway	Purine metabolism; Pyrimidine metabolism
Function	ATP binding; deoxycytidine kinase activity; kinase activity; nucleotide binding; phosphotransferase activity, alcohol group as acceptor; transferase activity