Active Recombinant Full Length Human deoxycytidine kinase Protein, His tagged

Cat. No. DCK-07HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length Human deoxycytidine kinase Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-260 aa
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.
Form	Yellowish amorphous lyophilized powder
CAS No.	9039-45-6
Bio-activity	Specific Activity: 48 U/mg Protein Activity: 22 U/mg solid
Unit Definition	One unit of WT human DCK converts 1.0 µmole of dC and ATP to dCMP and ADP per minute at pH 7.5 at 37 centigrade.

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Purity	≥95% by SDS-PAGE
Note	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Stability	At least 1 year
Storage	Store it at -20 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	This enzyme powder is PBS based buffer and reconstitute using H2O.

GENE INFORMATION

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

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