

Recombinant Human Deoxycytidine Kinase/DCK Protein (His &T7 Tag)

Catalog No. PKSH032348

Description

Synonyms	Deoxycytidine Kinase; dCK; DCK
Species	Human
Expression_host	E.coli
Sequence	Met1-Leu260
Accession	P27707
Mol_Mass	34.0 kDa
AP_Mol_Mass	30 kDa
Tag	N-6His

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM TrisHCl pH7.5.
Reconstitution	Not Applicable

Background

Deoxycytidine Kinase (DCK) is a member of the DCK/DGK family. DCK exists as a homodimer and is localized to the nucleus. DCK is required for the phosphorylation of the deoxyribonucleosides deoxycytidine (dC), deoxyguanosine (dG), and deoxyadenosine (dA). DCK has broad substrate specificity, and does not display selectivity based on the chirality of the substrate. In addition, DCK is also an essential enzyme for the phosphorylation of numerous nucleoside analogs widely employed as antiviral and chemotherapeutic agents. DCK is clinically important because of its relationship to drug resistance and sensitivity.

SDS-PAGE

