



# Recombinant Protein Technical Manual

**Recombinant Human Deoxycytidine Kinase/DCK  
Protein (His &T7 Tag)**  
RPES2208

## Product Data:

**Product SKU:** RPES2208

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P27707

## Protein Information:

**Molecular Mass:** 34.0 kDa

**AP Molecular Mass:** 30 kDa

**Tag:** N-6His

**Bio-activity:**

**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:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Deoxycytidine Kinase; dCK; DCK

## Immunogen Information:

**Sequence:** Met 1-Leu260

## 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.