

## DCK/Deoxycytidine kinase Protein, Human (P. pastoris, His)

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| <b>Cat. No.:</b>         | HY-P700584  |
| <b>Synonyms:</b>         | rHuDeoxycytidine kinase/DCK, His-T7; Deoxycytidine Kinase; dCK; DCK |
| <b>Species:</b>          | Human   |
| <b>Source:</b>           | P. pastoris   |
| <b>Accession:</b>        | P27707 (M1-L260)  |
| <b>Gene ID:</b>          | 1633  |
| <b>Molecular Weight:</b> | 31.6 kDa  |

### PROPERTIES

|                                |   |
|--------------------------------|---|
| <b>AA Sequence</b>             | <p>M A T P P K R S C P      S F S A S S E G T R      I K K I S I E G N I      A A G K S T F V N I</p> <p>L K Q L C E D W E V      V P E P V A R W C N      V Q S T Q D E F E E      L T M S Q K N G G N</p> <p>V L Q M M Y E K P E      R W S F T F Q T Y A      C L S R I R A Q L A      S L N G K L K D A E</p> <p>K P V L F F E R S V      Y S D R Y I F A S N      L Y E S E C M N E T      E W T I Y Q D W H D</p> <p>W M N N Q F G Q S L      E L D G I I Y L Q A      T P E T C L H R I Y      L R G R N E E Q G I</p> <p>P L E Y L E K L H Y      K H E S W L L H R T      L K T N F D Y L Q E      V P I L T L D V N E</p> <p>D F K D K Y E S L V      E K V K E F L S T L</p> |
| <b>Biological Activity</b>     | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.  |
| <b>Appearance</b>              | Lyophilized powder.   |
| <b>Formulation</b>             | Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.   |
| <b>Endotoxin Level</b>         | <1 EU/µg, determined by LAL method.   |
| <b>Reconstitution</b>          | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.   |
| <b>Storage &amp; Stability</b> | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.  |
| <b>Shipping</b>                | Room temperature in continental US; may vary elsewhere.   |

### DESCRIPTION

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| <b>Background</b> | DCK, known as deoxycytidine kinase, demonstrates its enzymatic prowess by effectively phosphorylating deoxyribonucleosides, including deoxycytidine, deoxyguanosine, and deoxyadenosine. With broad substrate specificity, this kinase does not exhibit selectivity based on the chirality of the substrate. Its significance extends to being an indispensable enzyme for the phosphorylation of various nucleoside analogs commonly utilized as antiviral and chemotherapeutic agents. |
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The ability of DCK to catalyze the phosphorylation of nucleosides plays a crucial role in cellular processes and contributes to the therapeutic efficacy of nucleoside analog-based treatments.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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