

## Wild-type Deoxycytidine Kinase from Human, recombinant

Cat. No. NATE-1695

Lot. No. (See product label)

### Introduction

**Description** Deoxycytidine kinase (dCK, EC:2.7.1.74) is required for the phosphorylation of the deoxyribonucleosides deoxycytidine (dC), deoxyguanosine (dG), and deoxyadenosine (dA). dCK has a broad substrate specificity, and does not display selectivity based on the chirality of the substrate. It is also an essential enzyme for the phosphorylation of numerous nucleoside analogs widely employed as antiviral and chemotherapeutic agents.

**Synonyms** Human Dck; WT human dCK

### Product Information

**Species** Human

**Source** E. coli

**Form** Liquid

**EC Number** EC 2.7.1.74

**CAS No.** 9039-45-6

**Molecular Weight** ~31 kDa

**Purity** >99% (SDS-PAGE)

**Activity** 6 IU/mg protein

**Concentration** 4.6mg/ML

**Buffer** 25 mM Hepes pH7.5, 200 mM NaCitrate, 10% glycerol, 5 mM DTT, 1 mM EDTA.

**Unit Definition** One unit of WT human dCK converts 1.0  $\mu$ mole of dC and ATP to dCMP and ADP per minute at pH 7.5 at 37°C, as measured by a coupled enzyme system with 200  $\mu$ M dC and 1 mM ATP.

### Storage and Shipping Information

**Storage** at -80 °C