

Deoxycytidine Kinase from Human, recombinant

Cat. No. NATE-1694

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; dCK-DM

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 145 IU/mg protein

Concentration 4.8mg/mL

Buffer 25 mM Tris pH7.5, 500 mM NaCl, 20 % glycerol, 10 mM DTT, 1 mM EDTA.

Unit Definition One unit of WT human dCK converts 1.0 μ 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 μ M dC and 1 mM ATP.

Storage and Shipping Information

Storage at -80 °C