Creative Enzymes®

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 µmole 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 µM dC and 1 mM ATP.

Storage and Shipping Information

Storage	at -80 °C