

Casein Kinase Iδ rat, Recombinant

Cat. No. NATE-0140

Lot. No. (See product label)

Introduction

Description The Casein kinase 1 family of protein kinases are serine/threonine-selective

enzymes that function as regulators of signal transduction pathways in most eukaryotic cell types. CK1 isoforms are involved in Wnt signaling, circadian

rhythms, nucleo-cytoplasmic shuttling of transcription factors, DNA repair, and DNA

transcription.

Synonyms Casein Kinase Iδ; Casein Kinase I; CK-Iδ; CK-Iδ; Non-specific serine/threonine protein

kinase; Protein phosphokinase; Protein serine kinase; Protein serine-threonine kinase; Protein-serine kinase; Serine kinase; Serine protein kinase; Serine

(threonine) protein kinase; Serine-specific protein kinase; Serine/threonine protein

kinase; Threonine-specific protein kinase

Product Information

Species Rat

Source E. coli

Form solution

Molecular Weight mol wt 41.8 kDa

Purity > 90% (SDS-PAGE)

Activity 1,000-3,000 units/mg protein

Buffer Solution in 20 mM HEPES pH 7.5, 1 mM DTT, 1 mM EDTA, 0.1% CHAPS, 250 mM

NaCl, 20 μ g/ml aprotinin, and 50% glycerol.

Pathway Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific

biosystem; Centrosome maturation, organism-specific biosystem; Circadian rhythm-mammal, organism-specific biosystem; Circadian rhythm-mammal, conserved biosystem; G2/M Transition, organism-specific biosystem; Gap junction,

organism-specific biosystem

Function ATP binding; ATP binding; glycoprotein binding; nucleotide binding; peptide

binding; phosphoprotein binding; protein binding; protein kinase activity; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity; tau-protein kinase activity; transferase activity, transferring

phosphorus-containing groups

Unit Definition One unit catalyzes the transfer of 1 nmol of phosphate from ATP into α -casein per

minute at 30°C at pH 7.5.

Usage and Packaging

Preparation Instructions CK-Iδ comprising the amino acids 1-317 of the N-

terminal catalytic domain.

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Stability

-20°C

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