Creative Enzymes®

Casein Kinase II from Human, Recombinant

Cat. No. NATE-1271

Lot. No. (See product label)

Introduction

Description	The Casein kinase 2 (EC 2.7.11.1) is a serine/threonine-selective protein kinase that is a tetramer of two alpha subunits and two beta subunits. The alpha subunits have the catalytic kinase domain. Casein kinase 2 has been implicated in cell cycle control, DNA repair, regulation of the circadian rhythm and other cellular processes.
Synonyms	EC 2.7.11.1; Casein Kinase II; CK2; CK II; Casein Kinase 2

Product Information

Species	Human
Source	E. coli
Form	350 mM NaCl, 20 mM Tris-HCl (pH 7.5 25°C), 1 mM Na2EDTA, 2 mM DTT and 0.1% Triton X-100.
CAS No.	9026-43-1
Molecular Weight	a-subunit (45 kDa), b-subunit (25 kDa). The apparent molecular weight of the a-subunit estimated by SDS-PAGE is about 42 kDa.
Activity	859,000 units/mg
Concentration	500,000 units/ml
Unit Definition	One unit is defined as the amount of CK2 required to catalyze the transfer of 1 pmol of phosphate to CK2 Peptide Substrate, RRRADDSDDDDD (100 μM), in 1 minute at 30°C in a total reaction volume of 25 μl.

Storage and Shipping Information

Storage	at -80°C. Avoid repeated freeze/thaw cycles.