Creative Enzymes®

# Native Rat Calmodulin-dependent Protein Kinase II

*Cat. No. NATE-0099*

*Lot. No.* (See product label)

## Introduction

***Description*** Serine-threonine protein kinase:these kinases appear to be involved in neurotransmitter release, control of stimulus-induced gene expression, and in the phosphorylation of microtubule related proteins.

***Synonyms*** Calmodulin-dependent Protein Kinase II; 9026-43-1

## Product Information

***Species*** Rat

***Source*** Rat brain

***Form*** buffered aqueous glycerol solution

***CAS No.*** 9026-43-1

***Activity*** 800-1,100 units/mg protein (Lowry)

***Buffer*** Solution in 50% glycerol containing 25 mM Tris-HCl, pH 7.5, 0.5 mM EDTA, 10 mM 2-mercaptoethanol, 10 μM 4-2-aminoethylbenzenesulfonyl fluoride, 0.01% leupeptin

***Unit Definition*** One unit will transfer 1.0 nanomole of phosphate from ATP to synapsin I per min at pH 7.0 at 30°C. The peptide corresponds to the γ-2L subunit of the GABAA receptor.

## Storage and Shipping Information

***Stability*** −70°C