

## Calmodulin-dependent Protein Kinase II from Rat, Recombinant

Cat. No. NATE-1273

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** S. frugiperda Sf9

**Form** 100 mM NaCl, 50 mM HEPES (pH 7.5 25°C), 0.1 mM EDTA, 1 mM DTT, 0.01% Brij 35 and 50% glycerol.

**Molecular Weight** Apparent: 33 kDa Theoretical: 36 kDa

**Purity** > 95% determined by SDS-PAGE

**Activity** 5,000,000 units/mg

**Concentration** 500,000 units/ml

**Unit Definition** One unit is defined as the amount of activated CaMKII required to catalyze the transfer of 1 pmol of phosphate from ATP(200mM) to Autocamtide-2 (CaMKII Peptide Substrate), KKALRRQETVDAL (50 µM), in 1 minute at 30°C in a total reaction volume of 30 µl.

### Storage and Shipping Information

**Storage** at -70°C. Avoid repeated freeze/thaw cycles.