Creative Enzymes®

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.