

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.