

## **Apyrase from Potato, Recombinant**

Cat. No. NATE-1268

Lot. No. (See product label)

## Introduction

Description Apyrase is found in all eukaryotes and some prokaryotes. Apyrase, from potato, has a crucial role in

> regulating growth and development. Apyrase is involved in the inactivation of synaptic ATP as a neurotransmitter following nerve stimulation and in the inhibition of ADP induced platelet aggregation to prevent thrombosis. Divalent metal ions are required for activity and best activity is observed with

calcium ion at 5 mM.

**Applications** Highly efficient degradation of ATP to AMP. Removal of deoxynucleotides in DNA pyrosequencing

> between cycles. Conversion of 5´ triphosphorylated RNA to ligatable monophosphorylated form that can be used for 5´RNA adaptor ligation. Conversion of 5´ triphosphorylated RNA to 5´ exonuclease

XRN-1 sensitive monophosphorylated RNA.

ATP-diphosphatase; adenosine diphosphatase; ADPase; ATP diphosphohydrolase; apyrase; EC 3.6.1.5; **Synonyms** 

9000-95-7

## **Product Information**

Potato **Species** 

E. coli Source

**Form** 50 mM NaCl, 20 mM MES (pH 6.5 25°C), 0.1 mM CaCl2, 1 mM DTT, 0.1% Tween-20 and 50% glycerol.

Molecular

47 kDa

Weight

**Activity** 3,000 units/mg

Concentration 500 units/ml

Unit One unit is defined as the amount of enzyme that catalyses the release of  $1 \mu mol$  of inorganic

**Definition** phosphate from ATP (1 mM) in 1X Apyrase Reaction Buffer in 1 minute at 30°C in a total reaction of 50

μl.

## Storage and Shipping Information

Storage at -20°C

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