

## Phosphodiesterase 3B, Recombinant

Cat. No. NATE-0522

Lot. No. (See product label)

### Introduction

**Description** PDE3 is a phosphodiesterase. The PDEs belong to at least eleven related gene families, which are different in their primary structure, substrate affinity, responses to effectors, and regulation mechanism. Most of the PDE families are composed of more than one gene. PDE3 is clinically significant because of its role in regulating heart muscle, vascular smooth muscle and platelet aggregation. PDE3 inhibitors have been developed as pharmaceuticals, but their use is limited by arrhythmic effects and they can increase mortality in some applications.

**Applications** Phosphodiesterase 3B has been used in a study to evaluate the evidence for biological effects of metformin in operable breast cancer. Phosphodiesterase 3B has also been used in a study to investigate the role of intracellular and intercellular communication in perfusion distribution of erythrocyte-derived ATP.

**Synonyms** cyclic 3',5'-mononucleotide phosphodiesterase; PDE; cyclic 3',5'-nucleotide phosphodiesterase; cyclic 3',5'-phosphodiesterase; 3',5'-nucleotide phosphodiesterase; 3':5'-cyclic nucleotide 5'-nucleotidohydrolase; 3',5'-cyclonucleotide phosphodiesterase; cyclic nucleotide phosphodiesterase; 3',5'-cyclic nucleoside monophosphate phosphodiesterase; 3':5'-monophosphate phosphodiesterase (cyclic CMP); cytidine 3':5'-monophosphate phosphodiesterase (cyclic CMP); cyclic 3',5'-nucleotide monophosphate phosphodiesterase; nucleoside 3',5'-cyclic phosphate diesterase; nucleoside-3',5'-monophosphate phosphodiesterase; EC 3.1.4.17; PDE3B

### Product Information

**Source** Sf9 cells

**Form** Supplied as a solution in 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT

**EC Number** EC 3.1.4.17

**CAS No.** 9040-59-9

**Molecular Weight** 86 kDa

**Unit Definition** One unit will convert 1.0 picomole of 3',5'-cAMP to 5'-AMP per minute at pH 7.4 at 37°C.

### Storage and Shipping Information

**Storage** -70°C