

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

intercellular communication in perfusion distribution of erythr ocyte-derived ATP.

has also been used in a study to investigate the role of intracellular and

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

1/1

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