

## Native *Crotalus atrox* (Western Diamondback Rattlesnake) Phosphodiesterase I

Cat. No. NATE-0513

Lot. No. (See product label)

### Introduction

- Description** Phosphodiesterase I breaks phosphodiester bonds and catalyzes the hydrolysis of various nucleotide polyphosphates. Phosphodiesterase I is released from eucaryotic plasma membranes by phosphatidylinositol-specific phospholipase C.
- Applications** Phosphodiesterase (PDE) is any enzyme that is used to breaks phosphodiester bonds. Phosphodiesterase I from western diamondback rattlesnake, is used in phosphodiesterase activation assays for calmodulin. It is added to hydrolyze AMP. It is a membrane-bound glycoprotein that is used to catalyze the hydrolysis of various nucleotide polyphosphates
- Synonyms** Phosphodiesterase I; EC 3.1.4.1; 5'-exonuclease; 5'-phosphodiesterase; 5'-nucleotide phosphodiesterase; oligonucleate 5'-nucleotidohydrolase; 5' nucleotide phosphodiesterase/alkaline phosphodiesterase I; 5'-NPDase; 5'-PDase; 5'-PDE; 5'NPDE; alkaline phosphodiesterase; nucleotide pyrophosphatase/phosphodiesterase I; orthophosphoric diester phosphohydrolase; PDE I; phosphodiesterase; exonuclease I

### Product Information

- Source** *Crotalus atrox* (Western Diamondback Rattlesnake)
- Form** crude dried venom
- EC Number** EC 3.1.4.1
- CAS No.** 9025-82-5
- Activity** > 0.01 unit/mg solid
- Unit Definition** One unit will hydrolyze 1.0  $\mu$ mole of bis (p-nitrophenyl) phosphate per min at pH 8.8 at 37°C.

### Storage and Shipping Information

- Storage** -20°C