

## Native Crotalus adamanteus venom Phosphodiesterase I

Cat. No. NATE-0512

Lot. No. (See product label)

## Introduction

Description Venom exonuclease (Phosphodiesterase I) successively hydrolyzes 5'-mononucleotides from 3'-OH-

terminated ribo- and deoxyribo-oligonucleotides. The enzyme has an optimal pH range of 9.8-10.4 and a molecular weight of 115 kDa. Phosphodiesterase is inhibited by reducing agents such as glutathione, cysteine and ascorbic acids. It is completely inhibited by 5mM EDTA while ATP, ADP and AMP are partial

inhibitors. The enzyme has an absolute requirement for Mg2+.

**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 adamanteus venom

**Form** Lyophilized in vials.

**EC Number** EC 3.1.4.1

**CAS No.** 9025-82-5

**Activity** > 20 units per mg dry weight

Definition

Unit

One Unit hydrolyzes one micromole of p-nitrophenyl thymidine-5-phosphate per minute at 25°C, pH 8.9.

Storage and Shipping Information

*Storage* −20°C

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