Creative Enzymes®

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 μmole of bis (p-nitrophenyl) phosphate per min at pH 8.8 at 37°C.

Storage and Shipping Information

Storage	−20°C