

Phosphodiesterase I

Source: *Crotalus adamanteus* Venom

I.U.B.: 3.1.4.1

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⁺.

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

Phosphodiesterase I

Code: VPH

Purified by the method of Williams, Sung and Laskowski, *JBC*, 236, 1130 (1961). Further treated to inactivate contaminating 5'-nucleotidase activity according to Sulkowski and Laskowski: *BBA*, 240, 443 (1961). Lyophilized in vials. Store at -20° C.

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Minimum Activity: ≥20 units per mg dry weight

Cat#	Pack Size
LS003926	100 un
LS003928	Bulk