Product Data Sheet

Product Name: Phosphodiesterase I from Crotalus adamanteus venom
Cat. No.: GC19763

Chemical Properties

Cas. No.	9025-82-5		
Formula		M.Wt	
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

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

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+

Phosphodiesterase (PDE) is any enzyme that is used to breaks phosphodiester bonds. It is a membrane-bound glycoprotein that is used to catalyze the hydrolysis of various nucleotide polyphosphates. Phosphodiesterase I is used in phosphodiesterase activitity

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