

Proteinase K, Recombinant, Molecular Grade

ALTERNATE NAMES:	Protease K, Endopeptidase K, <i>Tritirachium</i> alkaline proteinase, Molecular Grade Proteinase K
CATALOG NO.:	9210-100, 500, 1G, 10G, 50G
AMOUNT:	100 mg, 500 mg, 1 g, 10 g, 50 g
SOURCE:	<i>Tritirachium album limber</i> gene, recombinant
MOL. WEIGHT:	28.9 kDa
FORM:	Lyophilized powder
SPECIFIC ACTIVITY:	≥ 30 U/mg
UNIT DEFINITION:	One unit is defined as the amount of enzyme that will liberate 1 μmol of tyrosine per minute at 37°C, pH 7.5
PURITY:	Over 99% (Native PAGE and SDS PAGE assay), Molecular Biology Grade, RNase/DNase free
DNAses and RNAses:	Not detected
DNA CONTENT:	The amount of total dsDNA in recombinant molecular biology grade, Proteinase K is at or below assay quantification limit (≤ 1 ng dsDNA/μg Proteinase K).
BIOBURDEN:	The number of viable microorganisms is recombinant molecular biology grade, Proteinase K is less than 5 cfu/ml.
RECONSTITUTION:	Soluble in 50 mM Tris-HCl (pH 7.5), 3 mM CaCl ₂ , 50% Glycerol yielding a clear colorless solution.
STORAGE CONDITIONS:	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.
DESCRIPTION:	A serine protease that displays the ability to digest native proteins, thereby inactivating enzymes such as DNase and RNase without recourse to a denaturation process. It retains its activity in presence of SDS and urea. It is inactivated by diisopropyl fluorophosphates (DFP) and phenyl methane sulfonyl fluoride (PMSF).
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Protease Activity Assay kit (**Cat. No. K781-100**)
- Protease Inhibitor Cocktail (**Cat. No. K271-500**)
- EZBlock™ Protease Inhibitor Cocktail, EDTA-Free (**Cat. No. K272-1EA**)
- EZBlock™ Protease Inhibitor Cocktail II (**Cat. No. K277-1EA**)
- EZBlock™ Protease Inhibitor Cocktail III (**Cat. No. K278-1EA**)
- EZBlock™ Protease Inhibitor Cocktail IV (**Cat. No. K279-1**)
- EZBlock™ Protease Inhibitor Cocktail IV (**Cat. No. K279-1EA**)
- EZBlock™ Protease Inhibitor Cocktail, EDTA-Free (**Cat. No. K272-1, 5**)
- EZBlock™ Universal Protease & Phosphatase Inhibitor Cocktail (**Cat. No. K283-1**)
- EZBlock™ Universal Protease & Phosphatase Inhibitor Cocktail (**Cat. No. K283-1EA**)
- EZBlock™ Universal Protease & Phosphatase Inhibitor Cocktail, EDTA-Free (**Cat. No. K284-1**)
- EZBlock™ Universal Protease & Phosphatase Inhibitor Cocktail, EDTA-Free (**Cat. No. K284-1EA**)
- Mini Brochure: Protease & Phosphatase Inhibitor Cocktails (**Cat # BVBPPIC-2011**)

FOR RESEARCH USE ONLY! Not to be used on humans.