

## Proteinase K, Recombinant, Molecular Grade

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| <b>ALTERNATE NAMES:</b>    | Protease K, Endopeptidase K, <i>Tritirachium</i> alkaline proteinase, Molecular Grade Proteinase K  |
| <b>CATALOG NO.:</b>        | 9210-100, 500, 1G, 10G, 50G   |
| <b>AMOUNT:</b>             | 100 mg, 500 mg, 1 g, 10 g, 50 g   |
| <b>SOURCE:</b>             | <i>Tritirachium album limber</i> gene, recombinant  |
| <b>MOL. WEIGHT:</b>        | 28.9 kDa  |
| <b>FORM:</b>               | Lyophilized powder  |
| <b>SPECIFIC ACTIVITY:</b>  | ≥ 30 U/mg   |
| <b>UNIT DEFINITION:</b>    | One unit is defined as the amount of enzyme that will liberate 1 μmol of tyrosine per minute at 37°C, pH 7.5  |
| <b>PURITY:</b>             | Over 99% (Native PAGE and SDS PAGE assay), Molecular Biology Grade, RNase/DNase free  |
| <b>DNAses and RNAses:</b>  | Not detected  |
| <b>DNA CONTENT:</b>        | 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).  |
| <b>BIOBURDEN:</b>          | The number of viable microorganisms is recombinant molecular biology grade, Proteinase K is less than 5 cfu/ml.   |
| <b>RECONSTITUTION:</b>     | Soluble in 50 mM Tris-HCl (pH 7.5), 3 mM CaCl <sub>2</sub> , 50% Glycerol yielding a clear colorless solution.  |
| <b>STORAGE CONDITIONS:</b> | Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.   |
| <b>DESCRIPTION:</b>        | 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). |
| <b>HANDLING:</b>           | 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.**