BioVision

rev 10/20 For research use only

Proteinase K, Recombinant, NGS Grade

ALTERNATE NAMES: Protease K, Endopeptidase K, Tritirachium alkaline

proteinase, NGS Grade Proteinase K. NGS Grade

Protease K

CATALOG NO.: 9247-100, 500, 1G, 10G

AMOUNT: 100 mg, 500 mg, 1 g, 10 g

SOURCE: Tritirachium album gene (Parengyodontium album).

recombinant

MOL. WEIGHT: 28.9 kDa

FORM: White Lyophilized powder

SOLUBILITY: ≥ 50 mg/ml

ACTIVITY: ≥ 35 U/mg

UNIT DEFINITION: One unit of Proteinase K hydrolyzes urea-denaturated

hemoglobin producing color equivalent of 1 µmol tyrosine per 1 min at 37°C and pH = 7.5 (Folin & Ciocalteu's

method), 1 U = 1 mAnsonU.

PURITY: This recombinant enzyme undergoes extensive

purification to yield the highest quality product. An extra purification step results in significantly increased solubility (2.5 fold), increased specific activity, and decreased DNA content as compared to our Molecular Biology Grade

product.

DNAses and RNAses: Not detected

DNA CONTENT: The amount of total DNA in recombinant molecular biology

grade, Proteinase K is less than ≤ 0.1 pg/mg by qPCR.

RECONSTITUTION: Soluble in 50 mM Tris-HCl (pH 7.5), 3 mM CaCl₂, 50%

Glycerol yielding a clear colorless solution.

STORAGE CONDITIONS: Store the lyophilized protein at -20°C. Aliquot the product

after reconstitution to avoid repeated freezing/thawing

cycles.

DESCRIPTION: Proteinase K is a broad-spectrum serine protease. Our

NGS grade recombinant Proteinase K is extensively purified to give highly active formulation free of any detectable nuclease activities. It is fully active up to 56°C and under denaturing conditions (e.g. in the presence of urea and/or SDS), what makes it ideal for digesting

proteins in variety of applications.

HANDLING: Do not take

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-
- EZBlock[™] Universal Protease & Phosphatase Inhibitor Cocktail, EDTA-Free (Cat. No. K284-1)
- EZBlock[™] Úniversal 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.

