

Proteinase K, Recombinant, Standard Grade

CATALOG NO:	9250-100 100 mg 9250-500 500 mg 9250-1G 1 gm 9250-10G 10 g
ALTERNATE NAMES:	Protease K Endopeptidase K Standard Grade Proteinase K Proteinase K Tritirachium alkaline proteinase
MOL. WT.	28.9 kDa
SOURCE:	Recombinant <i>Pichia pastoris</i>
PURITY:	>90% by chromatography
FORM:	White Lyophilized powder
SPECIFIC ACTIVITY:	≥ 25 U/mg
RECONSTITUTION:	Soluble in 50 mM Tris-HCl (pH 7.5), 3 mM CaCl ₂ , 50% Glycerol yielding a clear colorless solution.
UNIT DEFINITION:	One unit will hydrolyze urea-denatured hemoglobin to produce color equivalent to 1.0 umole (181 µg) of tyrosine per minute at pH 7.5 at 37°C.
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). It is not inhibited by iodoacetic acid, the trypsin-specific inhibitor TLCK, the chymotrypsin-specific inhibitor TPCK, and p-chloromercuribenzoate.
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Proteinase K, Recombinant, Molecular Grade (Cat. No. 9210)
- EZBlock Protease Inhibitor Cocktail, EDTA-Free (Cat. No. K272-1EA)
- Protease Activity Assay kit (Cat. No. K781-100)
- Protease Inhibitor Cocktail (Cat. No. K271-500)
- Proteinase K, Recombinant, 20 mg/ml Solution, Molecular Grade (Cat. No. 9211)

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