

Tritirachium album Proteinase-K Recombinant

Item Number	rAP-1079
Synonyms	Proteinase K (EC:3.4.21.64), Endopeptidase K, Tritirachium alkaline proteinase, PROK.
Description	Recombinant Tritirachium album Proteinase-K expressed in yeast containing 285 amino acids having a Mw of 29.3 kDa is purified by standard chromatography techniques.
Uniprot Accesion Number	P06873
Amino Acid Sequence	
Source	Yeast
Physical Appearance and Stability	Sterile Filtered lyophilized powder. Recombinant Proteinase-K although stable at room temp for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The Proteinase-K was lyophilized without any additives. Greater than 99% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Proteinase-K in 20mM Tris-HCl (pH 7.4~8.0), 1mM CaCl ₂ , 50% glycerol not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	34 Units/mg protein. One unit is defined as the amount of enzyme that will hydrolyze urea-denatured hemoglobin to produce color equivalent to 1.0 mol tyrosine per min at 37°C, pH 7.5 (color by Folin-Ciocalteu reagent).
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**