

Proteinase K (PRK) from Tritirachium album

Product Information

Cat#	DIA-421
Source	Recombinant Tritirachium album
Description	Proteinase K is a highly stable serine protease with broad substrate specificity. It efficiently degrades native proteins even in the presence of detergents, making it ideal for nucleic acid purification. Belonging to the subtilisin family, it cleaves peptide bonds next to aliphatic or aromatic amino acids. Its robustness and wide activity range make it a standard tool in molecular biology.
Form	Freeze dried powder
Activity	≥ 30 U/mg
Isoelectric point	7.81
Storage	Below 8 °C
Enzyme Commission Number	EC 3.4.21.64
pH Stability	pH 4.5–12.5 (25 °C, 16 h)
Optimum pH	7.0–12.0
Optimum temperature	65 °C
Thermal stability	Below 50 °C (pH 8.0, 30 min)
Inhibitors	Diisopropylfluorophosphate, phenylmethylsulfonylfluoride
Applications	Genetic diagnostic kit; RNA and DNA extraction kits; Extraction of non-protein components from tissues, degradation of protein impurities, such as DNA vaccines and preparation of heparin; Preparation of chromosome DNA by pulsed electrophoresis; Western blot; Enzymatic glycosylated albumin reagents in vitro diagnosis.
Appearance	White to off-white amorphous lyophilizate



Creative Enzymes

Diagnostic Enzymes

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Molecular Weight	29 kDa (SDS-PAGE)
Warnings	Wear protective gloves and goggles when using or weighing, and keep well ventilated after use. This product may cause skin allergic reaction and serious eye irritation. If inhaled, it may cause allergy or asthma symptoms or dyspnea.
Package	100 mg/1 g/10 g/100 g