

Proteinase K

Please read the manual carefully before use.

Cat. No. GE201

Concentration: 20 mg/ml

Storage: At room temperature (15°C-30°C) for one year; at -18°C or below for two years.

Description

Proteinase K is a high-activity serine protease (subtilisin family) purified from *Tritirachium album* Limber. It efficiently degrades proteins and is commonly used for protein removal in biological samples.

Proteinase K exhibits broad substrate specificity, with particular preference for cleaving ester and peptide bonds adjacent to the C-terminus of hydrophobic amino acids, sulfur-containing amino acids, and aromatic amino acids. The product exhibits stable activity in Ca^{2+} salt solutions, and its activity increases in the presence of protein denaturants such as SDS or urea.

Usage Instructions

Incubation temperature: 55°C–65°C, with the optimal temperature at 58°C.

Incubation time: 15 minutes to 48 hours, with the optimal duration of 2 hours.

Application

Used in DNA/RNA extraction to degrade proteins and inactivate DNases/RNases.

For research use only, not for clinical diagnosis.

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