

## Proteinase K, recombinant

20 mg/ml

Proteinase K is a serine protease that has no pronounced cleavage specificity. It cleaves proteins between amino acids X and Y (X - Y), when X = an aliphatic, aromatic, or hydrophobic amino acid, and Y = any amino acid. The enzyme is extremely effective on native proteins and can therefore be used to rapidly inactivate endogenous nucleases such as RNases and DNases.



- Choose an effective tool for template preparation. Inactivate DNases and RNases of most species.
- Count on consistent quality and performance. Stringent quality testing ensures optimal stability and high-level lot-to-lot performance.
- Prepare samples over a wide range of conditions. The robust enzyme is stable over a wide pH range and is ideal for diverse applications.
- Benefit from a contamination-free enzyme. The enzyme is tested for the absence of RNases and DNases, and is virtually free of DNA. It is especially suited for the isolation of PCR templates.

Proteinase K is one of the most active endopeptidases known. The enzyme is extremely effective on native proteins and can be used to rapidly inactivate endogenous RNases and DNases. This PCR Grade Proteinase K is particularly suitable for isolating nucleic acids for amplification reactions, as well as:

- Isolating native RNA and DNA from tissues or cell lines
- Promoting bacterial cell lysis (by activating a bacterial autolytic factor)
- Modifying proteins and glycoproteins on cell surfaces (for membrane structural analysis)