Recombinant Proteinase K

Reagent grade, Lyophilized powder

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Introduction

Proteinase K, a broad-spectrum serine protease, firstly was extracted and purified from Engyodontium album. Because it can degrade Keratin, so named proteinase K. The crystallization and molecular structure of Proteinase K indicate it belongs to subtilisin family, whose active site has a characteristic catalytic triple amino acid Asp39-His69-Ser224. Proteinase K has no significant substrate specificity, and main cleavage site is the peptide bond at the carboxyl end of the hydrophobic amino acid such as aliphatic or aromatic.

Recombinant Proteinase K is derived from yeast based on the optimized gene of *Engyodontium* album by site-directed mutation. It is purified by chromatography process, and with calcium and glycerin as protective agents.

with 50% glycerin. Store the reconstituted solution at

2-8 degrees, for long-term storage.

Expiry date: 24 months.

Please avoid repeated freeze-thaw cycles.

Related Products

Specification

- Physical Appearance: White lyophilized powder
- Purity: more than 95%, SDS-PAGE
- Molecular weight: 29kD
- Bioactivity: ≥30U/mg
- E.C. No. 3.4.21.64
- DNase Non-detection
- RNase Non-detection

FOR RESEARCH, LABORATORY AND MANUFACTURE USE ONLY. NOT INTENDED FOR DIRECT USE ON HUMANS.

Preparation and Storage

It is recommended to reconstitute the proteinase K powder with water, add 50% glycerin, or reconstitute