

Recombinant Proteinase K

Cat No. NATE-1240

Creative Enzymes provides molecular biology grade lyophilized powder of Recombinant Proteinase K with various package sizes.



Proteinase K is a broad-spectrum serine protease originally isolated from fungus *Engyodontium album* (*Tritirachium album*). The enzyme was named "proteinase K" for its ability to digest keratin. Structural and molecular biology studies suggest that the enzyme belongs to the subtilisin family characterized with a catalytic triad (Asp³⁹-His⁶⁹-Ser²²⁴) in the active site. Proteinase K has no pronounced cleavage specificity and the preferential cleavage site is the peptide bond adjacent to hydrophobic amino acids.

Product Information


Product Name	Proteinase K from <i>Tritirachium album</i> Limber, recombinant
Cat No.	NATE-1240
Source	From yeast cells with cloned gene encoding genetically engineered <i>Engyodontium album</i> (<i>Tritirachium album</i>) endolytic protease
Physical Appearance	Lyophilized powder
Temperature Profile	Maximum activity at 70°C, recommended at 37-70 °C.
pH Range	4.5-12.0 (optimum pH range 7.5-11.5)
Purity	≥95% (Native-PAGE)
Specific Activity	≥34 U/mg protein
Unit Definition	One unit is defined as the enzyme activity that produces 1 μmol of tyrosine per minute from casein at 37°C, pH 7.5.
DNA & RNA Contamination Assay	None detected
DNase Contamination Assay	None detected
RNase Contamination Assay	None detected
Caution	The molecular biology grade lyophilized powder is not sterile.


Advantages of Our Recombinant Proteinase K


- Our recombinant proteinase K is a mutant of the native proteinase that obtained improved specific activity, higher efficiency and a wider range of pH and temperature while retaining optimal activity.
- The broad temperature profile of our recombinant proteinase K helps with protein unfolding, easing proteolysis by proteinase K.
- Proprietary processes result in DNA-free proteinase K, well-suited in isolating DNA and RNA templates.
- Lot-to-lot consistency, superior purity and cost-efficiency in larger scales upon bulk request.


If you are interested in our recombinant proteinase K product, please feel free to **contact us**. We look forward to cooperating with you in the near future.

Contact Information

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