RPT0008LQ
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Recombinant Serratia marcescens Nuclease

Catalog No.: RPT0008LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<I>Pichia</I>	87005285	P13717

Tags
No tag

Synonyms
Endonuclease; Nuclease; nucA; nuc

Product Information

Source

Purification
> 95% by SDS-PAGE.

Endotoxin
<0.1EU/μg

Formulation
Solution in 50% glycerol containing 20 mM Tris HCl, pH 8.0, 2 mM MgCl₂, and 20 mM NaCl.

Reconstitution

Background

Catalyzes the hydrolysis of both DNA and RNA, double- or single-stranded, at the 3'position of the phosphodiester bond to produce 5'-phosphorylated mono-, di-, tri- and tetranucleotides. DNA is a slightly better substrate than RNA.

Basic Information

Description
Recombinant Serratia marcescens Nuclease Protein is produced by <I>Pichia</I> expression system. The target protein is expressed with sequence (Asp22-Asn266) of serratia marcescens Nuclease (Accession #WP_015377376.1) fused with no additional amino acid.

Bio-Activity
1.One unit (U) is defined as the amount of enzyme required to change the absorption value of ΔA260 by 1.0 (equivalent to complete digestion of 37 μg of salmon essence DNA into oligonucleotides) in 30 min at 37°C, pH 8.0 reaction conditions. The specific activity of Serratia marcescens nuclease is > 1000 U/μL.|2.Recombinant Serratia marcescens Nuclease (0.1U) can effectively degrade 5 μg plasmid DNA at 37℃ for 30 min. The reaction buffer is: 10 mM MgCl2, 0.1 mg/mL BSA, 50 mM Tris-HCl, pH8.5.

Storage
stable at -70℃.This product is stable at ≤ -20℃ for up to 1 year from the date of receipt.
For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.
Avoid repeated freeze/thaw cycles.

Contact

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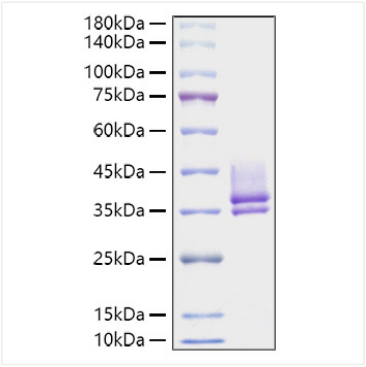
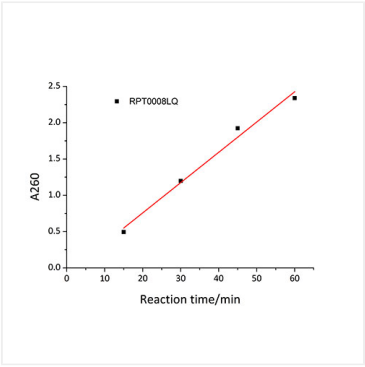
Validation Data



Recombinant Serratia marcescens Nuclease was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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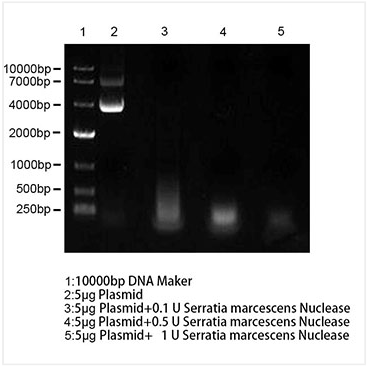

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