Recombinant Serratia marcescens Nuclease

Catalog No.: RPT0008LQ

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Sequence Information

Species
Serratia marcescens

Gene ID
87005285

Swiss Prot
P13717

Tags
No tag

Synonyms
Endonuclease; Nuclease; nucA; nuc

Product Information

Source
Pichia

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.71 kDa

Observed MW
35-40 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Solution in 50% glycerol containing 20 mM Tris HCl, pH 8.0, 2 mM $MgCl_2$, 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 *Pichia* 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.

Activity
1.One unit (U) is defined as the amount of enzyme required to change the absorption value of △A260 by 1.0 (equivalent to complete digestion of 37 μg of salmon essence DNA into oligonucleotides) in 30 min at 37℃, 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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -80℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
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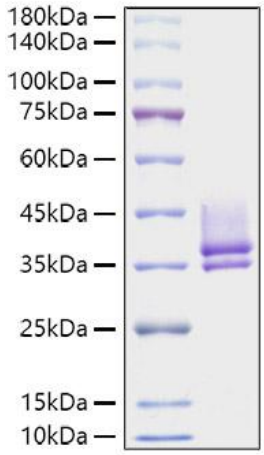
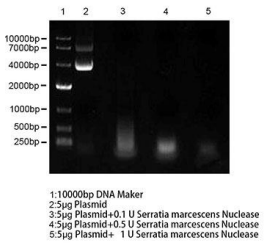
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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



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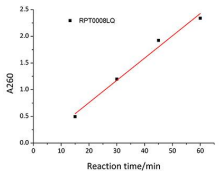

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