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NUCLEASE FF

Recombinant endonuclease from *Serratia marcescen*

Description

Nuclease FF is an advanced endonuclease sourced from *Serratia marcescens*, a microorganism renowned for its robust characteristics. This enzymatic product has no sequence specificity and excels in its ability to digest all forms of nucleic acids. It is subjected to a rigorous purification process, ensuring consistent performance and reliability for all intended endeavours.

Key features

- suitable for all types of nucleic acids - single-stranded; double-stranded; circular, linear, and supercoiled DNA and RNA;
- exceptional activity to 3 - 5 bp fragments;
- remarkable stability across a diverse range of environmental conditions.

Use

- designed for application in protein and molecular biology research and industry;
- ideal for tasks such as reduction of bacterial lysates viscosity, cell-clumping prevention, elimination of protein-DNA complexes etc.;
- no detectable proteolytic activity resulting to the perfect tool for nucleic acid contamination removal in protein purifications processes;
- high ability to indiscriminately cleave DNA/RNA strands, facilitating the complete digestion of nucleic acids;
- exceptional activity and stability rendering Nuclease FF suitable for use in all kinds of research and industrial processes that demand little to no DNA/RNA presence.

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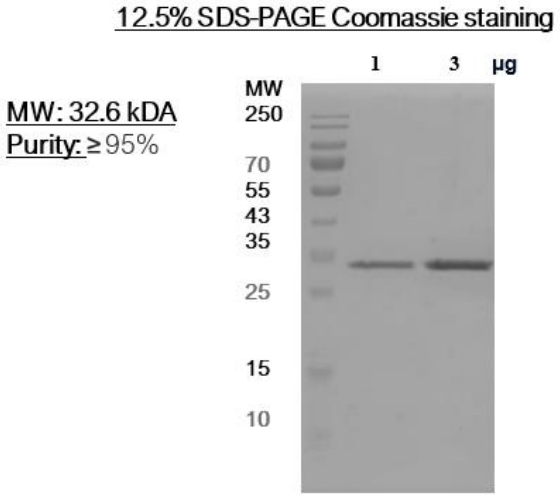
Specifications

enzymatic activity	≥ 250 U/µl *One unit of the enzyme cleaves approximately 37 µg of DNA, which corresponds to an ΔA260 change of 1.0 after 30 minutes incubation at 37 °C under defined conditions: Assay buffer: 50 mM Tris-HCl, 1 mM MgCl2, 100 ug/ml BSA. Substrate: 1 mg/ml sonicated salmon sperm DNA with 100 ug/ml BSA.* *Absorbance A260 and subsequent activity was determined after trichloroacetic acid precipitation of acid-soluble DNA fragments.*
purity	≥ 95 % *evaluated by SDS-PAGE Coomassie staining. Purified by combination of metaloafinite chromatography and ion-exchange chromatography.*
formulation	50 mM Tris-HCl, pH 8.0, 2 mM $MgCl_2$, 20 mM NaCl
specificity	indiscriminately digests DNA and RNA of any origin



Packaging and Storage

- 25,000 U in 0.1 ml
- 50,000 U in 0.2 ml
- liquid / frozen, storage at -20°C
- stability: ≥ 6 months, avoid repeated freeze-thaw cycles.

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