

Code; RP-NucHis-S
Lot; xxxx
Size; 2,500 kunits



ProteinExpress

Serratia marcescens Nuclease (His-tagged), recombinant

Concentration : 2500 units/ μ L

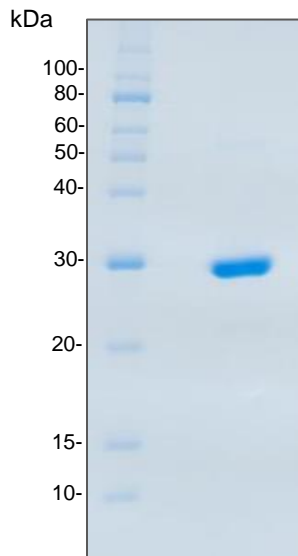
Storage : Stored at -20°C to -80°C . Avoid repeated freeze-thaw cycles.

Description : *Serratia marcescens* Nuclease (AAA26560) 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. The sequence is same with Benzonase® (Benzonase is a trademark of Merck KGaA, Darmstadt, Germany).

Source : Recombinant protein with a C-terminal 6-His tag, expressed in *Brevibacillus choshinensis*.

Molecular Weight : 28kDa, under reduced condition (SDS-PAGE).

Purity : > 95%, as determined by SDS-PAGE visualized by CBB stain.



Storage Buffer :

20 mM Tris/HCl, pH 8.0
20 mM NaCl
2 mM MgCl_2
50% Glycerol

Unit Definition : One unit will digest sonicated salmon sperm DNA to acid-soluble oligonucleotides equivalent to a ΔAbs_{260} of 1.0 in 30 min at pH 8.0 at 37°C .

Reaction mixture for unit definition:

50 mM Tris-HCl, pH 8.0
1 mM MgCl_2
0.02% BSA
1mg/mL salmon sperm BSA, sonicated

Applications

- Viscosity reduction in E. coli lysates (in a typical example, 1-5 units are added per gram of E. coli pellet and incubate for 30min at 4°C)
- Removal of nucleic acid contaminants from sample solution

Reference:

- FEBS Lett. 1997 Jul 21;412(1):217-22.
- FEMS Microbiol Lett. 1998 Aug 1;165(1):1-13.
- Gene. 1987;57(2-3):183-92.
- J Biol Chem. 1946 Aug;164(2):563-8.
- J Biol Chem. 1969 Oct 10;244(19):5213-8.
- J Bacteriol. 1963 Feb;85(2):273-8.
- Nucleic Acids Res. 1992 Oct 11;20(19):4971-4.
- Protein Sci. 1996 Jan;5(1):24-33.

For Research Use Only. Not for use in diagnostic procedures

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