

## Endonuclease

**Description:** Endonuclease Serratia Marcescens Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 240 amino acids, having an MW of 30kDa. The Endonuclease is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-682

**Source:** E.coli.

For research use only.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:**

ADTLESIDNCAVGCPTGGSSNVSVIRHAYTLNNNSTTKFANWVAYHITKDTPASGKTRNWKTDPA  
LNPADTLAPADYTGANAALKVDRGHQAPLASLAGVSDWESLNYLSNITPQKSDLNQGAWARLED  
QERKLIDRADISSVYTVTGPLYERDMGKLPGTQKAHTIPSAYWKVIFINNPAVNHYYAFLFDQNT  
PKGADFCQFRVTVDEIEKRTGLIIWAGLPDDVQASLKSPPASCRS

**Purity:** Greater than 90% as determined by SDS-PAGE, under reducing conditions.

**Formulation:**

The Endonuclease solution contains 50mM Tris-HCl pH 8.0, 20mM NaCl, 2mM MgCl<sub>2</sub> and 50% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Storage at lower than -200C can results in loss of activity. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

The Endonuclease catalyzes the hydrolysis of both DNA and RNA, double or single stranded, at position 3' of the phosphodiester bond to generate 5'-phosphorylated mono-, di-, tri- and tetranucleotides (DNA being the slightly better substrate than RNA). Endonuclease binds one magnesium ion as cofactor. Endonuclease active site contains one hydrated magnesium ion which has only one direct interaction with the protein, while all the other interactions are via water molecules.

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