

DNA/RNA ExreNuclease™

Catalog Number: EXRP156

EXREprotein™

More information: marketing@exreprotein.com

For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.

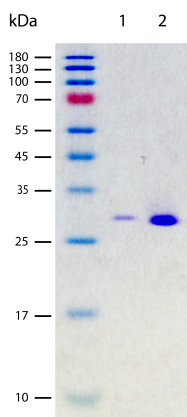
Product Details

Biological Activity	Determined by its ability to cleave all single or double stranded DNA and RNA similar to the universal nuclease Benzonase®. The specific activity is typically $>1.5 \times 10^6$ Unit per mg.
Unit definition	Complete digestion of 36 µg of DNA/RNA in a buffer of 50 mM Tris-HCl, pH 8.0, 1 mM MgCl ₂ , at 37°C within 30 minutes.
Concentration	1x10 ⁶ U/mL
Purity	>98-99% by SDS-PAGE and quantitative densitometry by Coomassie® Blue staining
Endotoxin	<0.001 EU per 1000 units (<1 EU/1000 KU) of the protein as determined by the LAL method
Source	Expressed in <i>E. coli</i> .
Accession Number	P13717.2
Sequence	Met1-Asn266
Molecular Weight	28.9 kDa (monomer, predicted)
Formulation	PBS, pH 7.4, with 50% Glycerol and 2 mM MgCl ₂

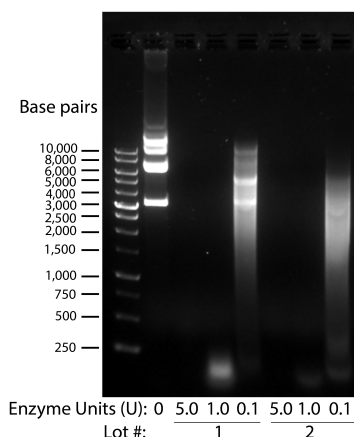
Storage and Preparation

Shipping	Shipped on blue ice. Store immediately at -20°C upon receipt.
Stability and Storage	12 months from date of receipt at -20°C. Do not store at -80°C.

Data Images



SDS-PAGE Data.
Purified ExreNuclease (Lane 1: 0.5 µg, Lane 2: 2.0 µg) on SDS-PAGE under reducing conditions. The gel was stained using Coomassie® Blue showing a single band at 29 kDa and purity greater than 98-99%.



Activity Data.
ExreNuclease at 0, 5.0, 1.0, and 0.1 Units was incubated with 36 µg of DNA/RNA mixture for 30 minutes at 37°C, then separated and visualized by staining in a 1.5% agarose gel. Lots #1 and 2 are before and after proprietary endotoxin removal procedure, respectively.

ExreNuclease™ is a universal endonuclease that cleaves DNA & RNA (single-, double-, circular, linear, chromosomal, plasmid, viral) in bio-processing to meet guidelines for host cell DNA and viral DNA clearance.

Benzonase® is a registered trademark of Merck KGaA Corporation