

Recombinant Golden Nuclease

Cat. No. COP23 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Bacterial
Source	E.coli
Product Overview	GoldenNuclease is a recombinant form of Serratia macescens extracellularendonuclease (encoded by the same gene of Benzonase) produced in Escherichiacoli cells.
Description	GoldenNuclease is a recombinant form of Serratia macescens extracellularendonu clease (encoded by the same gene of Benzonase) produced in E. coliusing a prop rietary process. This nonspecific endonuclease hydrolyzes bothsingle- and doubl e-stranded nucleic acids (DNA and RNA) to 5"-phosphorylatedoligonucleotides of 1-4 bases in length. TurboNuclease is a highly purifiedhomodimer of 27 kDa subu nits that has exceptional high specific activity andis free of protease activity. It is id eal to digest nucleic acids and toreduce viscosity during protein purification and sa mple preparation.
Biochem/physiolActions	Digests native or heat-denatured DNA and RNA.
Formulation	Solutionin 50% glycerol containing 20 mM Tris HCl, pH 8.0, 2 mM MgCl ₂ , and 20 mMNaCl.
Application	Usedfor the removal of nucleic acid from protein samples; Viscosity reduction

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	in protein extracts.
Unit Definition	One unit will digest sonicated salmon sperm DNA to acid-soluble oligonucleotides equivalent to a ΔA_{260} of 1.0 in 30 min at pH 8.0 at 37 °C (reaction volume 2.625 ml).
Concentration	>250 units/ μ L
Storage	Store at -20°C upon received. Avoid repeated freeze-thaw cycles.

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