

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 marcescens extracellular endonuclease (encoded by the same gene of Benzonase) produced in Escherichia coli cells.
Description	GoldenNuclease is a recombinant form of Serratia marcescens extracellular endonuclease (encoded by the same gene of Benzonase) produced in E. coli using a proprietary process. This nonspecific endonuclease hydrolyzes both single- and double-stranded nucleic acids (DNA and RNA) to 5'-phosphorylated oligonucleotides of 1-4 bases in length. TurboNuclease is a highly purified homodimer of 27 kDa subunits that has exceptional high specific activity and is free of protease activity. It is ideal to digest nucleic acids and to reduce viscosity during protein purification and sample preparation.
Biochem/physiol Actions	Digests native or heat-denatured DNA and RNA.
Formulation	Solution in 50% glycerol containing 20 mM Tris HCl, pH 8.0, 2 mM MgCl ₂ , and 20 mM NaCl.
Application	Used for the removal of nucleic acid from protein samples; Viscosity reduction

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	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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