

## Recombinant Golden Nuclease

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

### SPECIFICATION

<b>Species</b>	Bacterial
<b>Source</b>	E.coli
<b>Product Overview</b>	GoldenNuclease is a recombinant form of Serratia marcescens extracellular endonuclease (encoded by the same gene of Benzonase) produced in Escherichiacoli cells.
<b>Description</b>	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.
<b>Biochem/physiol Actions</b>	Digests native or heat-denatured DNA and RNA.
<b>Formulation</b>	Solution in 50% glycerol containing 20 mM Tris HCl, pH 8.0, 2 mM MgCl <sub>2</sub> , and 20 mM NaCl.
<b>Application</b>	Used for the removal of nucleic acid from protein samples; Viscosity reduction in protein extracts.

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

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