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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Turbo Nuclease (active)

Cat. No. GTX53472-pro

Application	Functional Assay
Species	Serratia marcescens

Package
200 µl

PRODUCT

Summary

TurboNuclease is an ultra-pure recombinant form of *Serratia marcescens* extracellular endonuclease (encoded by the same gene as Benzonase) produced in *E. coli* using a proprietary process. This non-specific 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 exceptionally high specific activity and is free of protease activity. TurboNuclease is ideal to digest nucleic acids and to reduce viscosity during protein purification and sample preparation.

APPLICATION

Application Note

One unit of TurboNuclease converts 1.0 OD₂₆₀ of salmon sperm DNA into acid-soluble nucleotides in 30 minutes at 37°C in a reaction buffer of 50 mM Tris-HCl, pH 8.0 and 1 mM MgCl₂. This corresponds to complete digestion of 50 µg of salmon sperm DNA into oligonucleotides. TurboNuclease has similar specific activity as Benzonase. (For detail information, please refer to the protocol)

PROPERTIES

Form	Liquid
Buffer	50mM Tris-HCl, 50mM NaCl, 5mM MgCl ₂ , 50% Glycerol
Preservative	No preservative
Storage	Store as concentrated solution. Aliquot and store at -20°C or below. Avoid freeze-thaw cycles.
Concentration	250 Unit/µl (Please refer to the vial label for the specific concentration.)
Expression System	<i>E. coli</i>
Endotoxin	< 0.1 EU / 1,000 units of TurboNuclease as determined by the Endo-Safe LAL Assay.
Conjugation	Unconjugated
Note	For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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