

Product Datasheet

Nuclease (orb257222)

Catalog Number	orb257222
Description	Nuclease is a recombinant form of Serratia marcescens extracellular endonuclease produced in Escherichia coli cells. Nuclease is a homodimer with monomer molecular masses about 30 kDa. Two disulfide bonds found in the nuclease are crucial to its activity and stability. The enzyme is a non-specific nuclease with high specific activity, which degrades both single- and double-stranded nucleic acids in any form (single stranded, double stranded, linear, circular and supercoiled). It hydrolyzes internal phosphodiester bonds present between the nucleotides to 5'- phosphorylated oligonucleotides of 3-5 bases in length.
Reactivity	Bacteria
Endotoxins	1.0 EU per µg
Conjugation	Unconjugated
Target	Nuclease
Preservatives	20mM Tris, 20mM NaCl, 2mM MgCl ₂ , pH 8.0
Form/Appearance	Powder
Storage	Avoid repeated freeze-thaw cycles. This product is stable after storage at: In lyophilized state for 1 year (-20°C); After reconstitution under sterile conditions for 3 months (-70°C)
Tag	Native
Note	For research use only

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Application notes

BenzNuclease is a recombinant form of *Serratia marcescens* extracellular endonuclease produced in *Escherichia coli* cells using a proprietary process. BenzNuclease is a homodimer with monomer molecular masses about 30 kDa. Two disulfide bonds found in the nuclease are crucial to its activity and stability. The enzyme is a non-specific nuclease with high specific activity, which degrades both single- and double-stranded nucleic acids in any form (single stranded, double stranded, linear, circular and supercoiled). It hydrolyzes internal phosphodiester bonds present between the nucleotides to 5'-phosphorylated oligonucleotides of 3-8 bases in length.

Purity

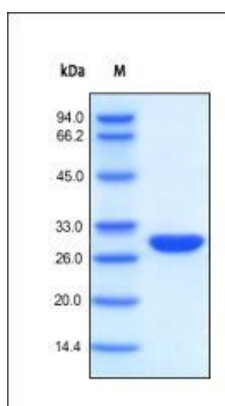
95%

MW

26.8 kDa

Expiration Date

6 months from date of receipt.



SDS-PAGE analysis of BenzNuclease protein

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