
Product Data Sheet

Product Name: Benzonase Nuclease, 90%
Cat. No.: GP26129
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Formulation	The Benzonase Nuclease solution contains 50% glycerol, 50 mM Tris-HCl pH 8.0, 20 mM NaCl and 2 mM MgCl ₂ .		

Introduction

Serratia marcescens secretes an endonuclease that has exceptionally high specific activity to the medium that surrounds it. The Benzonase Nuclease is mainly used for elimination of nucleic acid contamination from purified proteins, downstream processing, reduction of viscosity etc. Nucleic acid contaminants are caused by nuclease released to the medium. The DNA is being destroyed by the release of the *S. marcescens* nuclease and it acts as the killer gene for the auto destruction of microorganisms.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Benzonase Nuclease *Serratia Marcescens* Recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 245 amino acids and having a molecular mass of 30kDa with 2 essential disulfide bonds. Benzonase Nuclease is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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