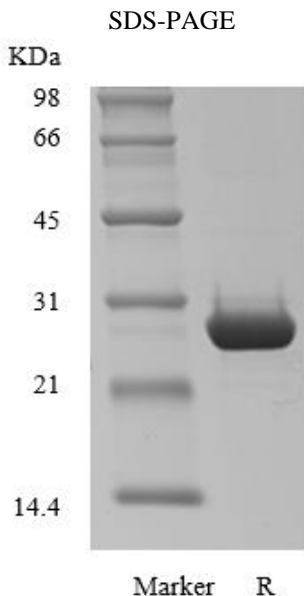


Catalog Number:	GMP-4A1-04
Source:	<i>Escherichia coli</i>
Molecular Weight:	Approximately 26.8 kDa, a single non-glycosylated polypeptide chain containing 245 amino acids.
Size:	50 KU/500 KU
Purity:	> 99% by SDS-PAGE analyses.
Biological Activity:	Test by degradation of Salmon Sperm DNA, corresponding to a specific activity of $> 1.1 \times 10^6$ U/mg.
Physical Appearance:	Sterile liquid.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in 50 mM Tris-HCl, 30 mM NaCl, 2 mM MgSO ₄ , 2 mM DTT, 50% Glycerol, pH 8.0.
Endotoxin:	Less than 0.25 EU/KU of BenzoNuclease GMP as determined by LAL method.
Sterility:	Negative.
Mycoplasma:	Negative.
Host Cell Protein:	Less than 0.05% when tested by ELISA.
Shipping:	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● A minimum of 12 months from date of receipt, when stored at ≤ -20 °C as supplied.● 3 months, -20 to -70 °C under sterile conditions after opening.● Refer to lot-specific CoA for the Expiry Date.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory, or further evaluation purposes. NOT FOR HUMAN USE.
Quality Statement:	The manufacturing and testing of these products comply with ICH Q7 guidelines.



Background:

Recombinant BenzoNuclease is a modified recombinant Benzonase nuclease fragment. Benzonase nuclease can degrade all forms of DNA and RNA (including single strand, double strand, linear and circular) without protein cleavage activity, and has high specificity in a wide range of conditions. BenzoNuclease can completely digest nucleic acid into 5'- monophosphate oligonucleotide with 3-5 base length (below the hybridization limit), which is most suitable for removing nucleic acid from protein. The ability of Benzonase nuclease to rapidly hydrolyze nucleic acid makes it the best choice to reduce viscosity to reduce processing time and increase protein production, which can be used to improve protein purification efficiency and function research and can effectively prevent the aggregation of human peripheral blood mononuclear cells (PBMC) in cell therapy and vaccine research.

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