

Datasheet for ABIN5706732  
**Micrococcal Nuclease S7**

Overview

Quantity:	15 kU
Species:	Staphylococcus aureus

Product Details

Purpose:	Micrococcal Nuclease S7
Characteristics:	Micrococcal nuclease catalyzes cleavage of both DNA and RNA to yield 3'-nucleotides. It exhibits exo- and endo-5'-phosphodiesterase activities. The enzyme catalyzes preferential endohydrolysis of the RNA and DNA at sites rich in adenylate or uridylate and deoxyadenylate or thymidylate. The enzyme has a molecular weight of 16,807 daltons and is calcium dependent. The pH optimum is 9.2 but varies depending upon the concentration of ionized calcium present.
Purification:	Purified by chromatography and assayed by SDS-PAGE.
Biological Activity Comment:	6,000 units per mg protein
Unit Definition:	One Unit causes a change in optical density of 1.0 at 260 nm at 37°C, pH 8.0, using DNA as the substrate.

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Restore with 1 mL deionized water (or equivalent).
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C or at -20° C or colder prior to opening product.

## Handling

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Expiry Date: 6 months

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)