

Serratia marcescens nuclease (SMnuclease), Recombinant

Cat. No. EXWM-3708

Lot. No. (See product label)

Introduction

Description SMnuclease is the only known nuclease that can hydrolyze all types of nucleic

acids, including single-stranded, double-stranded, linear, and circular DNA or RNA. The DNA hydrolysis rate of SMnuclease is 34 times that of DNasel, and 4 times that of Staphylococcus aureus nuclease. SMnuclease can react under a very wide range of conditions (such as 6 M Urea, 0.1 M Guanidine HCl, 0.4% Triton X-100, 0.1% SDS, 1 mM EDTA, 1 mM PMSF) and is widely used to remove nucleic acids from biological

products.

Product Information

Species Serratia marcescens

Form Colorless clear liquid

EC Number EC 3.1.30.2

CAS No. 9025-65-4

Molecular Weight 28.0 kDa

Purity >90% by SDS-PAGE

Activity $\geq 1.5 \times 10^6 \text{ U/mg}$

pH Stability pH 6-10

Optimum pH 8

Optimum temperature 37°C

Unit Definition The amount of enzyme that reduced the value of $\Delta A260$ by 1.0 (equivalent to the

complete digestion of 37 μg Salmon DNA) within 30 minutes under the reaction

conditions of 37°C and pH 8.0 is defined as an active unit.

Reaction Endonucleolytic cleavage to 5'-phosphomononucleotide and 5'-

phosphooligonucleotide end-products

Notes This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

Storage and Shipping Information

Storage The product is stored at -20°C. The shelf life is 24 months. The product is stable

under the condition of cold and airtight storage, and the activity is not significantly

attenuated.

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