

BaseMuncher Endonuclease ab270049

[7 References](#) [2 Images](#)

Overview

Product name

BaseMuncher Endonuclease

General notes

Endonuclease enzyme BaseMuncher is a non-specific endonuclease that is used for the removal of nucleic acid from protein samples. Our ultrapure endonuclease hydrolyzes both single stranded and double stranded, along with circular and linear nucleic acids (DNA and RNA) to 5-phosphorylated oligonucleotides of 1-4 bases in length.

Recombinantly produced in E. coli using the Benzonase gene in a proprietary process, BaseMuncher is a highly purified homodimer of 27kDa subunits that have exceptionally high specific activity and is completely free of protease activity. BaseMuncher is ideal for reducing viscosity during protein purification and sample preparation.

One Unit of BaseMuncher converts 1.0 OD₂₆₀ of salmon sperm DNA into acid soluble nucleotides in 30 minutes at 37°C in a reaction buffer of 50mM Tris-HCl, pH 8.0 and 1mM MgCl₂. This corresponds to complete digestion of 50µg of salmon sperm DNA into oligonucleotides.

Features & Benefits:

Exceptionally high endonuclease specificity for DNA and RNA

Ultrapure to >99%

Free of protease activity

High purity and high concentration grade

Easy protein purification –Reduced viscosity during sample preparation

100x greater activity than DNAase

Cheaper than Benzonase; but the same quality and efficiency.

General notes:

This product is manufactured by Expedeon, an Abcam company. Expedeon product code BM0025 was previously called BaseMuncher Endonuclease >99% Ultrapure - 25,000 Units (1 x 100 µL) and is the same as the 25,000 unit size of this product. Expedeon product code BM0100 was previously called BaseMuncher Endonuclease >99% Ultrapure - 100,000 Units (4 x 100 µL) and is the same as the 100,000 unit size.

Properties

Form

Liquid

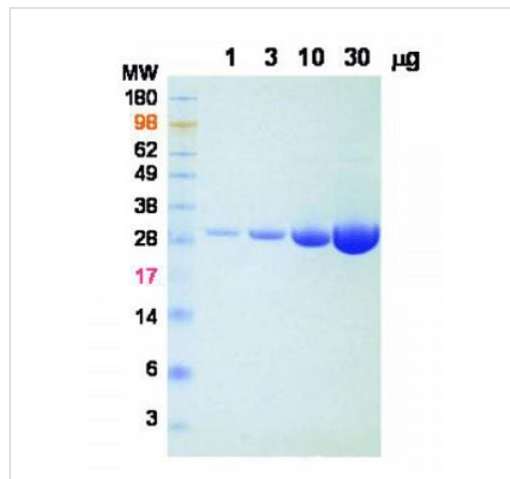
Storage instructions

Shipped at 4°C. Store at -20°C.

Storage buffer

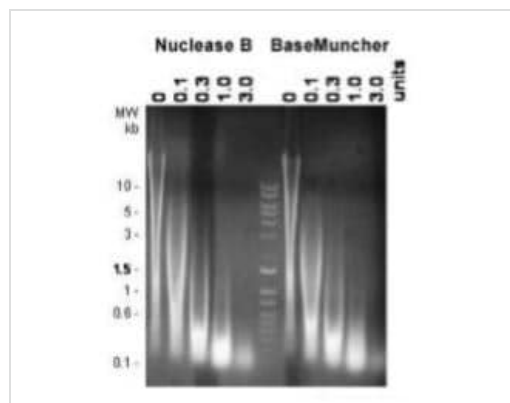
pH: 8.00

Constituents: 50% Glycerol (glycerin, glycerine), 0.29% Sodium chloride, 48.85% Water, 0.05% Magnesium chloride, 0.79% Tris HCl

Images

RIP - BaseMuncher Endonuclease (ab270049)

BaseMuncher Endonuclease is purified by a proprietary process to be >99% pure by SDS-PAGE.



Functional Studies - BaseMuncher Endonuclease (ab270049)

50 µg of salmon sperm DNA was incubated with the indicated units of BaseMuncher Endonuclease and another brand of nuclease at 37°C for 30 mins in a buffer containing 50 mM Tris-HCl; pH 8.0 and 1 mM MgCl₂.

DNA digestion was monitored by agarose gel.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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