

## Lysozyme 23A from Bacillus subtilis, Recombinant

Cat. No. NATE-1455

Lot. No. (See product label)

## Introduction

**Description** Lysozymes, also known as muramidase or N-acetylmuramide glycanhydrolase, are glycoside

hydrolases. These are enzymes (EC 3.2.1.17) that damage bacterial cell walls by catalyzing hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in a peptidoglycan and between N-acetyl-D-glucosamine residues in chitodextrins. Lysozyme is abundant in a number of secretions, such as tears, saliva, human milk, and mucus. It is also present in cytoplasmic granules of the macrophages and the polymorphonuclear neutrophils (PMNs). Large amounts of lysozyme can be found in egg white. C-type lysozymes are closely related to alpha-lactalbumin in sequence and structure, making them part of the same family. In humans, the lysozyme enzyme is

encoded by the LYZ gene.

**Synonyms** muramidase; globulin G; mucopeptide glucohydrolase; globulin G1; N,O-diacetylmuramidase; lysozyme

g; L-7001; 1,4-N-acetylmuramidase; mucopeptide N-acetylmuramoylhydrolase; PR1-lysozyme;

lysozyme; LYZ; LZM; EC 3.2.1.17; 9001-63-2

## **Product Information**

**Species** Bacillus subtilis

**Source** E. coli

Form 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide

and 25% (v/v) glycerol

**EC Number** EC 3.2.1.17

**CAS No.** 9001-63-2

Molecular

20.5 kDa

Weight

**Purity** >90% by SDS-PAGE

**Concentration** 1 mg/mL

**Optimum pH** 6.0-7.0

Optimum

32 °C

temperature

**Specificity** Cell wall peptidoglycans

## Storage and Shipping Information

**Storage** This enzyme is shipped at room temperature but should be stored at -20 °C.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1