

Native Human Lysozyme

Cat. No. NATE-0433

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 Human

Source Human neutrophils

Form Lyophilized from 50 mM sodium acetate, pH 6.0, with 100 mM NaCl

EC Number EC 3.2.1.17

CAS No. 9001-63-2

Purity > 95% (SDS-PAGE)

Activity 30,000 Sugar units per mg

Pathway Amyloids, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem;

Disease, organism-specific biosystem; Salivary secretion, organism-specific biosystem; Salivary secretion,

conserved biosystem

Function hydrolase activity, acting on glycosyl bonds; lysozyme activity

Unit One unit is defined as the amount of enzyme that digest powdered cells of Micrococcus lysodeikticus,

Definition causing a decrease in absorbancy of 0.001 per minute at 37oC, pH 7.0.

Storage and Shipping Information

Storage −20°C

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