

## Active Native Human Lysozyme

Cat. No. LYZ-249H    Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Human Neutrophil
<b>Description</b>	Lysozyme occurs in specific granules of human polymorphonuclear leukocytes and takes part in the antibacterial activity of the leukocytes. It hydrolyzes beta-1,4 links between N-acetylmuramic acid or 2-acetamido-2deoxy-D-glucose residues in mucopolysacchride, mucopolypeptide or chitin.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	>30,000 Sugar units per mg.
<b>Molecular Mass</b>	MW: 14,700
<b>Purity</b>	>= 95% by SDS-PAGE
<b>Unit Definition</b>	One unit of activity is defined as the amount of enzyme which will digest powdered cells of <i>Micrococcus lysodeikticus</i> , causing a decrease in absorbancy of 0.001 per minute at 37°C, pH 7.0.
<b>Usage</b>	For research or further manufacturing use only.
<b>Quality Control Test</b>	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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<b>Stability</b>	>1 year
<b>Storage</b>	<=>
<b>Storage Buffer</b>	50 mM Na acetate, pH 6.0 with 100 mM NaCl

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">LYZ lysozyme [ Homo sapiens ]</a>
<b>Official Symbol</b>	LYZ
<b>Synonyms</b>	LYZ; lysozyme; lysozyme (renal amyloidosis); lysozyme C; renal amyloidosis; 1,4-beta-N-acetylmuramidase C; LZM;
<b>Gene ID</b>	<a href="#">4069</a>
<b>mRNA Refseq</b>	<a href="#">NM_000239</a>
<b>Protein Refseq</b>	<a href="#">NP_000230</a>
<b>MIM</b>	<a href="#">153450</a>
<b>UniProt ID</b>	<a href="#">P61626</a>
<b>Chromosome Location</b>	12q15
<b>Pathway</b>	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;

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**Function**

hydrolase activity, acting on glycosyl bonds; lysozyme activity;

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