

# Active Recombinant Human Lysozyme

**Cat. No.** LYZ-04H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | A breakthrough for bacterial cell lysis - produced in an animal-free production system, eliminates the risk of adding an animal derived component.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Recombinant Human Lysozyme is a breakthrough for microbial cell lysis and can be used as a preservative in foods and beverages, diagnostic applications, bioprocessing and life science research. LYZ-04H is recombinant human lysozyme produced in an animal-free production system. Animal-free production eliminates the risk of adding an undesirable animal component or potential allergen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | > 100,000 Units/mg protien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Characteristic</b>   | Higher PerformanceLysobac is a more effective preservative than chicken lysozyme. Lysobac is four times more active per mg for lysing Micrococcus and E. coli., when compared with chicken lysozyme. It also has the added benefit of being completely animal-free, thus eliminating any concerns regarding consumers with egg allergies.Improved Cell Lysis EfficiencyLysobac saves bioprocessing time by eliminating cell harvest to provide in-culture protein extraction. In addition, because Lysobac is highly active it adds minimal volume to the final lysate.Increased ConsistencyRecombinant Lysobac provides the additional advantage of being consistent across product lots unlike chicken lysozyme, which has a great deal of variability.Gentle Lysis AgentLysobac is a gentle lysing agent providing minimal risk of denaturing protein.Animal-FreeThere is increasing demand for products that are |

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manufactured in a completely animal-free and allergen free production system.  
Lysobac is produced in an animal-free, recombinant system (See ExpressTec).

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | LYZ lysozyme [ Homo sapiens ]                                                                                                                                                                                                           |
| <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>             | 4069                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_000239                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_000230                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 153450                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | P61626                                                                                                                                                                                                                                  |
| <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; |
| <b>Function</b>            | hydrolase activity, acting on glycosyl bonds; lysozyme activity;                                                                                                                                                                        |

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