

## Recombinant Human LYZ Protein, GST-tagged

**Cat. No.** LYZ-4533H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human LYZ full-length ORF (1 a.a. - 148 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes human lysozyme, whose natural substrate is the bacterial cell wall peptidoglycan (cleaving the beta[1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine). Lysozyme is one of the anti-microbial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. Missense mutations in LYZ have been identified in heritable renal amyloidosis. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 42.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MKALIVLGLVLLSVTVQGKVFERCELARTLKRLGMDGYRGISLANWMCLAKWESGY<br>NTRATNYNAGDRSTDYGIFQINSRYWCNDGKTPGAVNACHLSCSALLQDNIADAVA<br>CAKRVRDPQGIRAWVAWRNRCQHRDVRQYVQCGV                                                                                                                                                                                                                                                                                                            |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                     |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                          |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                        |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                        |
| <b>GENE INFORMATION</b> |                                                                                                                 |
| <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                                                                                                          |

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