

## Recombinant Human LYZ, MYC/DDK-tagged, 13C & 15N Labeled

**Cat. No.** LYZ-1033H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human LYZ, fused with C-terminal MYC/DDK, Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine, was expressed in Human HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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 antimicrobial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. The protein has antibacterial activity against a number of bacterial species. Missense mutations in this gene have been identified in heritable renal amyloidosis.
<b>Molecular Mass</b>	14.7 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Storage</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3. Store at -80C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.

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**Concentration** > 50 ug/ml as determined by BCA

## GENE INFORMATION

**Gene Name** LYZ lysozyme [ Homo sapiens (human) ]

**Official Symbol** LYZ

**Synonyms** LYZ; lysozyme; LZM; lysozyme C;renal amyloidosis; lysozyme (renal amyloidosis); OTTHUMP00000240861;OTTHUMP00000240877; 1,4-beta-N-acetylmuramidase C; EC 3.2.1.17

**Gene ID** 4069

**mRNA Refseq** NM\_000239

**Protein Refseq** NP\_000230

**MIM** 153450

**UniProt ID** P61626

**Chromosome Location** 12q15

**Pathway** Amyloids; C-MYB transcription factor network; Disease; Salivary secretion

**Function** identical protein binding; lysozyme activity

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