

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	14.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Storage	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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