

Active Recombinant Human Lysozyme

Cat. No. LYZ-64H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Lysozyme is added in lysing bacterial cells to the cell extraction buffer at a range of 0.05-0.5 mg/ml (7,000-70,000 U/ml). Recombinant Human Lysozyme produced in Plant is a single, non-glycosilated polypeptide chain containing 130 amino acids and a molecular mass of 14 kDa.
Species	Human
Source	Rice Grain
Description	Lysozyme is an enzyme found in egg white, tears, and other secretions. Lysozyme is responsible for attacking & breaking down the polysaccharide walls of many kinds of bacteria and thus it provides some protection against infection. Bacteria build a tough skin of carbohydrate chains, interlocked by short peptide strands, that braces their delicate membrane against the cell's high osmotic pressure. Lysozyme breaks these carbohydrate chains, destroying the structural integrity of the cell wall. The bacteria burst under their own internal pressure. Lysozyme (muramidase) hydrolyzes preferentially the β -1,4 glucosidic linkages between N-acetylmuramic acid and N-acetylglucosamine which occur in the mucopeptide cell wall. Lysozyme is a mediator in the anti-tumor function of macrophages which, it has been shown, secrete the enzyme. Cartilage lysozyme has a role in cartilage calcification. Presence of the Lysozyme in cerebrospinal fluid is indicative of tumor of the central nervous system, normally lysozyme activity is practically absent from urine, bile and spinal fluid.
Form	Sterile Filtered white lyophilized powder.

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Bio-activity	≥4.0×10 ⁴ U/mg
Molecular Mass	14.7 kDa
Purity	≥90% SDS-PAGE
Storage	Stored at 2-8°C.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

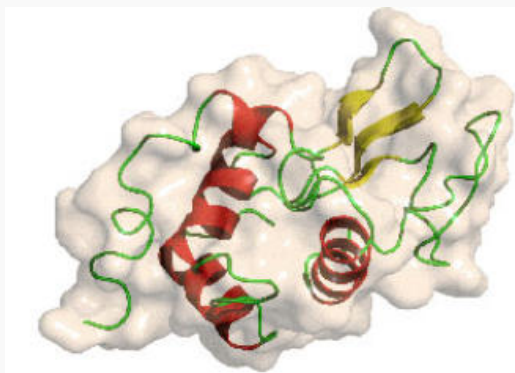
Gene Name	LYZ lysozyme [Homo sapiens]
Official Symbol	LYZ
Synonyms	LYZ; lysozyme; lysozyme (renal amyloidosis); lysozyme C; renal amyloidosis; 1,4-beta-N-acetylmuramidase C; LZM;
Gene ID	4069
mRNA Refseq	NM_000239
Protein Refseq	NP_000230
MIM	153450
UniProt ID	P61626

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