

# OryzaExp™ Lysozyme, Human Recombinant

<b>CATALOG NO:</b>	P1400-1 1 g
<b>ALTERNATE NAMES:</b>	OryzaExp™ LYZ, rLYZ, recombinant lysozyme, rec lysozyme, rec LYZ
<b>MOL. WT.</b>	14.7 kDa
<b>SOURCE:</b>	Oryza Sativa (Rice)
<b>PURITY:</b>	> 90%
<b>FORM:</b>	Lyophilized
<b>FORMULATION:</b>	In Citrate buffer with NaCl
<b>RECONSTITUTION:</b>	It is recommended to reconstitute the lyophilized LYZ in sterile water.
<b>SPECIFIC ACTIVITY:</b>	$\geq 4 \times 10^2$ U/mg
<b>STORAGE CONDITIONS:</b>	Store at 4°C. Please avoid repeated freeze/thaw cycles. 4°C

**DESCRIPTION:** Lysozyme (LYZ) is a small protein with 14.7kDa molecular weight and a isoelectric point of 11.4, contains 129 amino acid. LYZ is a potent antimicrobial enzyme, by catalytic hydrolysis of their cell wall peptidoglycan, which contains sugars and amino acids. The sugar component consists of A-(1,4)-linked N-acetyl glucosamine and N-acetylmuramic acid. This compromises the bacterial cell wall and causes the bacterium to burst under the high internal osmotic pressure. BioVision OryzaExp™ Lysozyme is derived from rice endosperm, which is animal component free, more bioactivity, also has high antimicrobial bioactivity, non-toxicity.

**AMINO ACID SEQUENCE:** MKALIVLGLV LLSVTVQGKV FERCELARTL KRLGMDGYRG ISLANWMCLA KWESGYNTRA  
 TNYNAGDRST DYGFQINSR YWCNDGKTPG AVNACHLSCS ALLQDNIADA VACAKRVVRD  
 PQGIRAWVAW RNRCQNRDVR QYVQCGCV

## RELATED PRODUCTS:

- Lysozyme Inhibitor Screening Kit (K237)
- EZLys™ Lysozyme, Human (8005)
- Lysozyme Antibody (A1110)
- Lysozyme (M127)
- Lysozyme Activity Assay Kit (Fluorometric) (K236)

