

OsrhLYZ

Recombinant Human Lysozyme

Lyophilized powder



Version 3.1 Revision Date: 1 6 . 9.2026

Catalog No. HYC042R01

Print Date: 1 6 .9.2026

Introduction

Lysozyme (LYZ) is a low molecular weight alkaline enzyme that can hydrolyze mucopolysaccharides in pathogenic bacteria. Lysozyme is a component of the normal immune defense mechanism of the body, which is named for its ability to dissolve bacterial cell walls. Mainly by breaking down the β -1,4 glycosidic bond between N-acetylmuramic acid and N-acetylglucosamine in the cell wall, the cell wall insoluble mucopolysaccharide is decomposed into soluble glycopeptides, resulting in the rupture of the cell wall and the escape of the contents to dissolve the bacteria. In the human body, LYZ is present in neutrophils, monocytes and macrophages, also present in mucosal secretions, becoming one of the body surface defense factors.

OsrhLYZ, expressed in the rice endosperm platform and purified by chromatography, is animal component free, more bioactivity, also has high antimicrobial bioactivity, non-toxicity.

Specification

- **Source:** Rice Grain (*Oryza Sativa*)
- **Appearance:** White or light yellow to pinkish crystalline powder or granule
- **Molecular weight:** 14.7 kDa
- **Purity:** $\geq 90.0\%$ by SDS-PAGE
- **PH:** 5.0-7.0
- **Bioactivity:** $> 4.0 \times 10^6 \text{U/mg}$

Preparation and Storage

- **Reconstitution:** It is recommended to reconstitute the lyophilized OsrhLYZ in sterile water. After the lyophilized powder is completely reconstituted, filter it with a $0.22 \mu\text{m}$ filter.
- **Storage:** Stored at temperature $2\sim 8^\circ\text{C}$ for at least 24 months.

Please avoid repeated freeze-thaw cycles.

Related Products

Cat. No.	Product Name
HYC002C01	OsrHSA Premium, powder
HYC002C02	OsrHSA Premium, liquid
HYC002M01	OsrHSA Advanced, powder
HYC002R01	OsrHSA Precise, powder
HYC028M01	OsrHSA, Fatty acid free, liquid
HYC021M01	OsrhFN, powder
HYC044M01	OsrhTF, powder
HYC005M01	OsrhbFGF, powder
HYC026M01	OsrhVEGF, powder
HYC027M01	OsrhKGF, powder
HYC020M01	rhEGF, powder
HYC007M01	rhIGF-1 LR3, powder
HYC006M01	OsrhAAT, powder
HYC004M01	OsrhLF, powder
HYC052R01	OsrCSA, liquid
HYC053R01	OsrFSA, liquid

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