
Product Data Sheet

Product Name: Lysozyme Human
Cat. No.: GP26165
Batch No.: 1

Product Data

Purity	>98%	Source	Oryza sativa (rice).
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	EC 3.2.1.17, LYZ, Lysozyme.		
Solubility	Stock solutions can be prepared by dissolving gently into PBS for several minutes. Recommended stock concentrations are 1mg/ml in PBS.		
Formulation	The protein (1mg/ml) was lyophilized with no additives.		

Introduction

Lysozyme is an antimicrobial enzyme produced by animals that are part of the innate immune system. Lysozyme is a glycoside hydrolase that catalyzes the hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in peptidoglycan, which is the major component of gram-positive bacterial cell wall. Lysozymes have primarily a bacteriolytic function - those in tissues and body fluids are associated with the monocyte-macrophage system and enhance the activity of immunoagents.

Biological Activity

>100,000 Units/mg protein. 1 unit will produce a change of A450 0.001 per minute at pH-6.24 and 25°C, using a suspension of micrococcus lysodeikticus as substrate in a 2.6ml reaction volume.

Stability

Lyophilized Lysozyme although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Lysozyme Human Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

Recombinant Human Lysozyme produced in Plant is a non-glycosylated, polypeptide chain containing 130 amino acids and having a molecular mass of 14kDa. The Recombinant Human Lysozyme is purified by proprietary chromatographic techniques.

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