

Human Chitinase-1, Recombinant

Cat. No. NATZ-148

Lot. No. (See product label)

Introduction

Description

Recombinant Human Chitinase-1/CHIT1 Protein is produced using a HEK293 expression system. The target protein is expressed with the sequence (Ala22-Asn466) of human CHIT1 fused with a C-terminal 6xHis tag. CHIT1 (Chitotriosidase-1) is a member of the glycosyl hydrolase 18 family and chitinase class II subfamily, which catalyzes the hydrolysis of chitin and plays important roles in innate immunity and inflammatory responses. This product exhibits high biological activity and purity, suitable for research applications in immunology and infectious disease studies.

Product Information

Species	Human
Source	HEK293 cells, recombinant
Form	Lyophilized powder
Molecular Weight	50.23 kDa (calculated); 50-55 kDa (observed by SDS-PAGE)
Purity	95%
Specific Activity	> 43,571 pmol/min/ug (measured by cleavage of 4-MU-TACT)
Buffer	Lyophilized from 0.22 um filtered PBS solution (pH 7.4)
Endotoxin Level	< 0.01 EU/ug
Amino Acid Sequence	Ala22-Asn466, C-terminal 6xHis tag

Usage and Packaging

Reconstitution	Reconstitute with sterile distilled water to 0.1-0.5 mg/mL; avoid vortex
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Storage and Shipping Information

Storage	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
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