

Recombinant Human Chitinase-1/CHIT1 Protein

Catalog No.: RP00248 Recombinant 1 Publications

Sequence Information

Species Gene ID Swiss Prot Human 1118 AAI03696.1

Tags

C-His

Synonyms

CHIT1;CHI3;CHIT;CHITD

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

50.23 kDa 50-55 kDa

Endotoxin

< 0.01 EU/ μg of the protein by LAL method

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Basic Information

Description

Recombinant Human Chitinase-1/CHIT1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala22-Asn466) of human CHIT1 (Accession #NP_003456) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to cleave 4-Methylumbelliferyl-beta -D-N,N',N"-triacetylchitotriose (4-MU-TACT). The specific activity is >43571 pmol/min/µg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

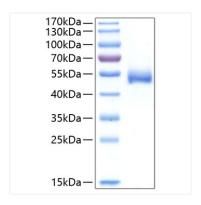
Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Human Chitinase-1/CHIT1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.