



Recombinant Human Chitotriosidase-1 (CHIT1)

Product Code	CSB-YP623792HU
Abbreviation	CHIT1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q13231
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	AKLVCYFTN WAQYRQGEAR FLPKDLPSL CTHLIYAFAG MTNHQLSTTE WNDETLYQEF NGLKKMNPKL KTLAIGGWN FGTQKFTDMV ATANNRQTFV NSAIRFLRKY SFDGLLDWE YPGSQGSPAV DKERFTTLVQ DLANAFQQEA QTSGKERLLL SAAVPAGQTY VDAGYEVDKI AQNLDFVNLN AYDFHGSWEK VTGHNSPLYK RQEESGAAAS LNVDAAVQQW LQKGTPASKL ILGMPTYGRS FTLASSSDTR VGAPATGSGT PGPFTKEGGM LAYYEVCSWK GATKQRIQDQ KVPYIFRDNQ WVGFDVESF KTKVSYLKQK GLGGAMVWAL DLDDFAGFSC NQGRYPLIQT LRQELSLPYL PSGTPELEVP KPGQPSEPEH GPSPGQDFTC QGKADGLYPN PRERSSFYSC AAGRLFQQSC PTGLVFSNSC KCCTWN
Source	Yeast
Target Names	CHIT1
Protein Names	Recommended name: Chitotriosidase-1 EC= 3.2.1.14 Alternative name(s): Chitinase-1
Expression Region	22-466
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Chitotriosidase is secreted by activated human macrophages and is markedly elevated in plasma of Gaucher disease patients. The expression of chitotriosidase occurs only at a late stage of differentiation of monocytes to activated macrophages in culture. Human macrophages can synthesize a functional chitotriosidase, a highly conserved enzyme with a strongly regulated expression. This enzyme may play a role in the degradation of chitin-containing pathogens.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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