



# Recombinant Human Chitotriosidase-1 (CHIT1)

<b>Product Code</b>	CSB-BP623792HU
<b>Abbreviation</b>	CHIT1
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q13231
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	AKLVCYFTN WAQYRQGEAR FLPKDLDPSTL CTHLIYAFAG MTNHQLSTTE WNDETLYQEF NGLKKMNPCL KTLAIGGWN FGTQKFTDMV ATANNRQTFV NSAIRFLRKY SFDGLDLWE YPGSQGSPAV DKERFTTLVQ DLANAFQQA QTSGKERLLL SAAVPAGQTY VDAGYEVDKI AQLNDFVNLN AYDFHGSWEK VTGHNSPLYK RQESGAAAS LNVDAAVQQW LQKGTPLSKL ILGMPTYGRS FTLASSSDTR VGAPATGSGT PGPFTKEGGM LAYYEVCSWK GATKQRIQDQ KVPYIFRDNQ WVGFDVDFSF KTKVSYLKQK GLGGAMVWAL DLDDFAGFSC NQGRIPLIQT LRQELSLPYL PSGTPELEVP KPGQPSEPEH GPSPGQDFTC QKADGLYPN PRERSSFYSC AAGRLFQQSC PTGLVFSNSC KCCTWN
<b>Source</b>	Baculovirus
<b>Target Names</b>	CHIT1
<b>Protein Names</b>	Recommended name: Chitotriosidase-1 EC= 3.2.1.14 Alternative name(s): Chitinase-1
<b>Expression Region</b>	22-466
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	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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