

Recombinant Full Length Human CHIT1 Protein, GST-tagged

Cat. No. CHIT1-3200HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CHIT1 full-length ORF (AAI03696.1, 1 a.a. - 466 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	466 amino acids
Description	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. Several alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jan 2012]
Molecular Mass	78.1 kDa
AA Sequence	MVRSVAWAGFMVLLMIPWGSAAKLVCYFTNWAQYRQGEARFLPKDLDPSTLCTHLIY AFAGMTNHQLSTTEWNETLYQEFNGLKMKMNPCLKTLLAIGGWNFSTQKFTDMVAT ANNRQTFVNSAIRFLRKYSFDGLDLDEYPGSQGSPAVDKERFTTLVQDLANAFQQ EAQTSGKERLLLSAAVPAGQTYVDAGYEVDKIAQNLDNFVNLMAFYDFHGSWEKVTGH NSPLYKRQEESGAAASLNVDAAVQQLQKGTPLKILGMPTYGRSFTLASSSDTR VGAPATGSGTPGPFTKEGGMLAYYEVCSSWKGATKQRIQDQKVPYIFRDNQWVGFD

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DVESFKTKVSYLKQKGLGGAMVWALDLDLDFAGFSCNQGRYPLIQTLRQELSLPYLP
SGTPELEVPKPGQPSEPEHGPSPGQDTFCQGKADGLYPNPRERSSFYSCAGGRFLF
QQSCPTGLVFSNSCKCCTWN

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CHIT1 chitinase 1 (chitotriosidase) [Homo sapiens]

Official Symbol

CHIT1

Synonyms

CHIT1; chitinase 1 (chitotriosidase); chitotriosidase-1; CHI3; CHIT; chitinase-1;
plasma methylumbelliferyl tetra-N-acetylchitotetraoside hydrolase; CHITD; FLJ00314;
MGC125322;

Gene ID

1118

mRNA Refseq

NM_001256125

Protein Refseq

NP_001243054

MIM

600031

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UniProt ID

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