

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 AFAGMTNHQLSTTEWNETLYQEFNGLKMMNPKLKTLLAIGGWNFSTQKFTDMVAT ANNRQTFVNSAIRFLRKYSFDGLDLDEYPGSQGSPAVDKERFTTLVQDLANAFQQ EAQTSGKERLLLSAAVPAGQTYVDAGYEVDKIAQNLDVFNLMAYDFHGSWEKVTGH NSPLYKRQEESGAAASLNVDAAVQQWLQKGTLPASKLILGMPTYGRSFTLASSSDTR VGAPATGSGTPGPFTKEGGMLAYYEVC SWKGATKQRIQDQKVPYIFRDNQWVGFD

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

DVESFKTKVSYLKQKGLGGAMVWALDLDLDFAGFSCNQGRYPLIQTLRQELSLPYLP
 SGTPELEVPKPGQPSEPEHGPSPGQDTFCQKGADGLYPNPRERSSFYSCAGGRLF
 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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