

Recombinant Human CHIT1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CHIT1-2701H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CHIT1 MS Standard C13 and N15-labeled recombinant protein (NP_003456) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	51.5 kDa
AA Sequence	MVRSVAWAGFMVLLMIPWGSAAKLVCYFTNWAQYRQGEARFLPKDLDPSTLCTHLY AFAGMTNHQLSTTEWNETLYQEFNGLKKMNPCLKTLLAIGGWNFGTQKFTDMVAT ANNRQTFVNSAIRFLRKYSFDGLDLWEYPGSQGSPAVDKERFTTLVQDLANAFQQ EAQTSGKERLLLAAVPAGQTYVDAGYEVDKIAQNLDVNLMAVDFHGSWEKVTGH NSPLYKRQEESGAAASLNVDAAVQQWLQKGTTPASKLILGMPTYGRSFTLASSSDTR VGAPATGSGTPGPFTKEGGMLAYYEVCWSKGATKQRIQDQKVPYIFRDNQWVGFD

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DVESFKTKVSYLKQKGLGGAMVWALDLDFFAGFSCNQGRYPLIQLRQELSLPYLP
SGTPELEVPKPGQPSEPEHGPSPGQDTFCQGKADGLYPNPRERSSFYSCAAGRLF
QQSCPTGLVFSNSCKCCTWNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CHIT1 chitinase 1 [Homo sapiens (human)]

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_003465

Protein Refseq NP_003456

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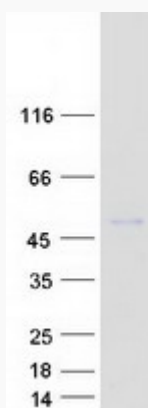
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MIM 600031

UniProt ID Q13231

SDS-PAGE



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