

Recombinant Human CHIT1 Protein

Cat. No. CHIT1-787H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CHIT1 protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	466
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.
Form	Lyophilized
Molecular Mass	51.3 kDa
AA Sequence	MVRSVAWAGFMVLLMIPWGSAAKLVCYFTNWAQYRQGEARFLPKDLDPSTLCTHLIY AFAGMTNHQLSTTEWNETLYQEFNGLKMMNPCLKTLLAIGGWNFQGTQKFTDMVAT ANNRQTFVNSAIRFLRKYSFDGLDLWEYPGSQGSPAVDKERFTTLVQDLANAFQQ EAQTSGKERLLLSAAVPAGQTYVDAGYEVDKIAQNLDVNLMAFYDFHGSWEKVTGH NSPLYKRQEESGAAASLNVDAAVQQWLQKQTPASKLILGMPTYGRSFTLASSSDTR

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VGAPATGSGTPGPFTKEGGMLAYYEVCSSWKGATKQRIQDQKVPYIFRDNQWVGF
 DVESFKTKVSYLKQKGLGGAMVWALDLDFFAGFSCNQGGRYPLIQTLRQELSLPYLP
 SGTPELEVPKPGQPSEPEHGPSPGQDTFCQGKADGLYPNPRERSSFYSCAAGRFL
 QQSCPTGLVFSNSCKCCTWN

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

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

Official Symbol CHIT1

Synonyms CHIT1; chitinase 1 (chitotriosidase); chitotriosidase-1; CHI3; CHIT; chitinase-1;

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plasma methylumbelliferyl tetra-N-acetylchitotetraoside hydrolase; CHITD; FLJ00314; MGC125322;

Gene ID 1118

mRNA Refseq NM_001256125

Protein Refseq NP_001243054

MIM 600031

UniProt ID Q13231

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