

Recombinant Human CHIT1

Cat. No. CHIT1-27067TH **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------|---|
| Product Overview | Recombinant fragment of Human CHIT1 with N terminal proprietary tag; Predicted MW 37.3 kDa |
| Species | Human |
| Source | Wheat Germ |
| ProteinLength | 110 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. |
| Molecular Weight | 37.730kDa inclusive of tags |
| Tissue specificity | Detected in spleen. Secreted by cultured macrophages. |
| Form | Liquid |
| Purity | Proprietary Purification |
| Storage buffer | pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl |

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| | |
|---------------------------------|---|
| Storage | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |
| Sequences of amino acids | GMTNHQLSTTEWNETLYQEFNGLKMKMNPCLKTLLAIGGW NFGTQKFTDMVATAN NRQTFVNSAIRFLRKYSFDGLDLDW EYPGSQGSPAVDKERFTTLVQDLANAFQQE |
| Sequence Similarities | Belongs to the glycosyl hydrolase 18 family. Chitinase class II subfamily. Contains 1 chitin-binding type-2 domain. |
| GENE INFORMATION | |
| Gene Name | CHIT1 chitinase 1 (chitotriosidase) [Homo sapiens] |
| Official Symbol | CHIT1 |
| Synonyms | CHIT1; chitinase 1 (chitotriosidase); chitotriosidase-1; CHI3; CHIT; |
| Gene ID | 1118 |
| mRNA Refseq | NM_003465 |
| Protein Refseq | NP_003456 |
| MIM | 600031 |
| Uniprot ID | Q13231 |
| Chromosome Location | 1q31-q32 |
| Pathway | Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; |

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Function

cation binding; chitin binding; chitinase activity; endochitinase activity;

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