Recombinant Human CHIT1

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

SPECIFICATION

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: 8.00Constituents: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	GMTNHQLSTTEWNDETLYQEFNGLKKMNPKLKTLLAIGGW 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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