

Recombinant Human CHIT1 protein, His & T7-tagged

Cat. No. CHIT1-1672H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHIT1 aa. (Ala193~Asn466 (Accession # Q13231)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala193~Asn466
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.7kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	6.4

GENE INFORMATION

Gene Name	CHIT1 chitinase 1 [Homo sapiens (human)]
Official Symbol	CHIT1
Synonyms	CHIT1; chitinase 1; CHI3; CHIT; CHITD; chitotriosidase-1; chitinase 1 (chitotriosidase); plasma methylumbelliferyl tetra-N-acetylchitotetraoside hydrolase
Gene ID	1118
mRNA Refseq	NM_001256125.1
Protein Refseq	NP_001243054.2

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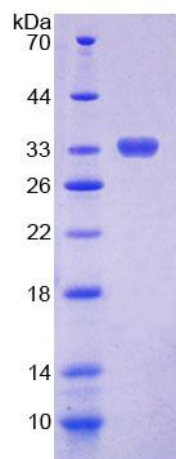
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UniProt ID

Q13231

SDS-PAGE

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