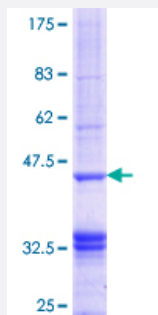


CHIT1 (Human) Recombinant Protein (Q01)

Catalog # H00001118-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CHIT1 partial ORF (NP_003456.1, 60 a.a. - 169 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GMTNHQLSTTEWNDETLYQEFNGLKKMNPCLKTLLAIGGWNFQTQKFTDMVATANNRQTFVNSAIRFLRKYSFDGLDLWEYPGSQGSPAVDKERFTTLVQDLANAFQQE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CHIT1

Entrez GeneID [1118](#)

GeneBank Accession# [NM_003465](#)

Protein Accession# [NP_003456.1](#)

Gene Name CHIT1

Gene Alias CHI3, CHIT, FLJ00314, MGC125322

Gene Description chitinase 1 (chitotriosidase)

Omim ID [600031](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations chitotriosidase|plasma methylumbelliferyl tetra-N-acetylchitotetraoside hydrolase

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)

Disease

- [Acute Disease](#)
- [Asthma](#)
- [Candidiasis](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Elephantiasis](#)
- [Genetic Predisposition to Disease](#)
- [Gram-Negative Bacterial Infections](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Leukemia](#)
- [Malaria](#)
- [Sepsis](#)
- [Tuberculosis](#)