

## Product datasheet for **TP720378M**

### CHIT1 (NM\_003465) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human chitinase 1 (chitotriosidase) (CHIT1)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Ala22-Asn466
Tag:	C-His
Predicted MW:	50.4 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	< 0.1 EU per µg protein as determined by LAL test
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003456</a>
Locus ID:	1118
UniProt ID:	<a href="#">Q13231</a>
Cytogenetics:	1q32.1
Synonyms:	CHI3; CHIT; CHITD
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. Several alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jan 2012]



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**Protein Families:** Secreted Protein, Transmembrane

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism

**Product images:**

