

# 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 **HEK293 Expression Host:** Ala22-Asn466 Expression cDNA Clone or AA Sequence: C-His Tag: 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 Store at -80°C. Storage: Stability: Stable for at least 3 months from date of receipt under proper storage and handling conditions. NP 003456 **RefSeq:** Locus ID: 1118 **UniProt ID:** Q13231 **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 chitincontaining pathogens. Several alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jan 2012]



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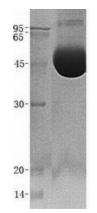
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## **CHIT1 (NM\_003465) Human Recombinant Protein – TP720378M**

Protein Families: Secreted Protein, Transmembrane

Protein Pathways: Amino sugar and nucleotide sugar metabolism

### **Product images:**



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