

Product datasheet for TP319169L

CHIT1 (NM_003465) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human chitinase 1 (chitotriosidase) (CHIT1), 1 mg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC219169 representing NM_003465
Red=Cloning site **Green**=Tags(s)

MVRSVAWAGFMVLLMIPWGSAAKLVCYFTNWAQYRQGEARFLPKDLDPSLCTHLIYAFAGMTNHQLSTTE
WNDETLYQEFNGLKKNPKLKTLLAIGGWNFGTQKFTDMVATANNRQTFVNSAIRFLRKYSFDGLDLWE
YPGSQGSPAVDKERFTLLVQDLANAFQQAQTSGKERLLLAAVPAGQTYVDAGYEVDKIAQNLDVNLML
AYDFHGSWEKVTGHNSPLYKRQEEGAAASLNDAAVQQWLQKGTASKLILGMPTYGRSFTLASSDTR
VGAPATGSGTPGPFTKEGGMLAYYEVCSWKGATKQRIQDQKVPYIFRDNQWVGFDDVESFKTKVSYLKQK
GLGGAMVWALDLDLDFAGFSCNQGRYPLIQTLRQELSLPYLPSGTPELEVPKPGQPSEPEHGPSPGQDTFC
QGKADGLYPNPRERSSFYSCAAGRLFQQSCPTGLVFSNSCKCCTWN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 51.5 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage: Store at -80°C.
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq: [NP_003456](#)



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Locus ID:	1118
UniProt ID:	Q13231
RefSeq Size:	1633
Cytogenetics:	1q32.1
RefSeq ORF:	1398
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]
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Amino sugar and nucleotide sugar metabolism

Product images:



Coomassie blue staining of purified CHIT1 protein (Cat# [TP319169]). The protein was produced from HEK293T cells transfected with CHIT1 cDNA clone (Cat# [RC219169]) using MegaTran 2.0 (Cat# [TT210002]).