

## Product datasheet for PH319169

### CHIT1 (NM\_003465) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CHIT1 MS Standard C13 and N15-labeled recombinant protein (NP_003456)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219169
Predicted MW:	51.5 kDa
Protein Sequence:	>RC219169 representing NM_003465 Red=Cloning site Green=Tags(s)

MVRSVAWAGFMVLLMIPWGSAAKLVCYFTNWAQYRQGEARFLPKDLDPSTLCTHLIYAFAGMTNHQLSTTE  
WNETLYQEFNGLKKNPKLKTLLAIGGWNFQTQKFTDMVATANNRQTFVNSAIRFLRKYSFDGLDLDWE  
YPGSQGSPAVDKERFTTLVQDLANAFQQAQTSKGERLLL SAAVPAGQTYVDAGYEVDKIAQNLDVNLNLM  
AYDFHGSWEKVTGHNSPLYKRQEESGAAASLNVDAAVQQWLQKGT PASKLILGMPTYGRSFTLASSSDTR  
VGAPATGSGTPGPFTKEGGMLAYYEVCWSWKATKQRIQDQKVPYIFRDNQWVGFDDVESFKTKVSYLKQK  
GLGGAMVWALDLDFFAGFSCNQGRYPLIQTLRQELSLPYLPSGTPELEVPKPGQPSEPEHGPSGQDTFC  
Q GKADGLYPNPRERSSFYSCAAGR LFQQSCPTGLVFSNSCKCCTWN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003456</a>
RefSeq Size:	1633
RefSeq ORF:	1398
Synonyms:	CHI3; CHIT; CHITD



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Locus ID: 1118

UniProt ID: [Q13231](#)

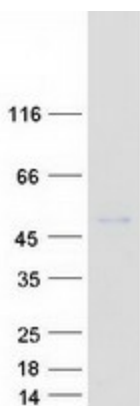
Cytogenetics: 1q32.1

**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]).