

[Go to Product page](#)

Datasheet for ABIN1096386

Chitotriosidase 1 Protein (AA 22-466) (His tag)

Overview

Quantity:	50 µg
Target:	Chitotriosidase 1 (CHIT1)
Protein Characteristics:	AA 22-466
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Chitotriosidase 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Chitotriosidase-1/CHIT1 (C-6His)
Sequence:	AKLVCYFTNW AQYRQGEARF LPKDLDPSLC THLIYAFAGM TNHQLSTTEW NDETLYQEFN GLKKMNPCLK TLLAIGGWNF STQKFTDMVA TANNRQTFVN SAIRFLRKYS FDGLDLDEWEY PGSQGSPAVD KERFTTLVQD LANAFQQAQ TSGKERLLLS AAVPAGQTYV DAGYEVDKIA QNLDFVNLMA YDFHGSWEKV TGHNSPLYKR QEESGAAASL NVDAAVQQWL QKGTPASKLI LGMPYGRSF TLASSSDTRV GAPATGSGTP GPFTKEGGML AYYEVCSWKG ATKQRIQDQK VPYIFRDNQW VGFDDVESFK TKVSYLKQKG LGGAMVWALD LDDFAGFSCN QGRYPLIQLT RQELSLPYLP SGTPELEVPK PGQPSEPEHG PSPGQDTFCQ GKADGLYPNP RERSSFYSCA GGRLFQQSCP TGLVFSNSCK CCTWNVDHHH HHH
Characteristics:	Recombinant Human Chitotriosidase-1/CHIT1 produced by transfected human cells is a secreted protein with sequence (Ala22-Asn466) of Human CHIT1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Chitotriosidase 1 (CHIT1)
Alternative Name:	chitotriosidase (CHIT1 Products)
Sub Type:	Fusionprotein
Background:	<p>Chitotriosidase-1 (CHIT1) is a glycoprotein that belongs to the Glycosyl Hydrolase 18 family and Chitinase class II subfamily. It is secreted by cultured macrophages and serves to degrade chitin, chitotriose and chitobiose. CHIT1 may participate in the defense against nematodes and other pathogens. It is highly expressed in the plasma of patients with Gaucher's disease type I, which can be used as diagnostic aid and to evaluate the success of treatment that brings levels back to normal. The amino acid sequence of human CHIT1 is 99%, 76%, 75% and 55% identical to that of chimpanzee, rat, mouse and fruit fly, respectively.</p> <p>Alternative Names: Chitotriosidase-1, Chitinase-1, CHIT1</p>
Molecular Weight:	50.43 kDa
UniProt:	Q13231

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>

Handling

Expiry Date: 6 months