

Datasheet for ABIN7275852

CHI3L1 Protein (AA 22-383) (His tag)**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CHI3L1
Protein Characteristics:	AA 22-383
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHI3L1 protein is labelled with His tag.

Product Details

Purpose:	Human YKL-40/CHI3L1 Protein
Sequence:	Tyr22-Thr383
Characteristics:	Recombinant Human YKL-40/CHI3L1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Tyr22-Thr383.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	CHI3L1
Alternative Name:	YKL-40 (CHI3L1 Products)

Target Details

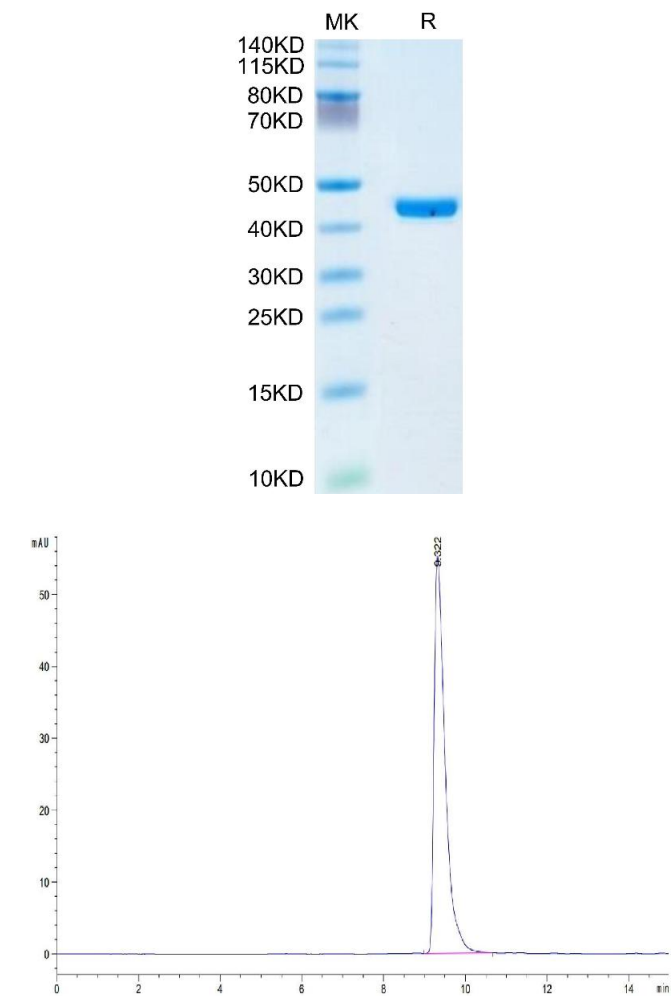
Background:	YKL-40 (also known as Chitinase 3-like 1) is a glycoprotein produced by inflammatory, cancer and stem cells. Its physiological role is not completely understood but YKL-40 is elevated in the brain and cerebrospinal fluid (CSF) in several neurological and neurodegenerative diseases associated with inflammatory processes. Yet the precise characterization of YKL-40 in dementia cases is missing. YKL-40 is a disease-specific marker of neuroinflammation showing its highest levels in prion diseases. Therefore, YKL-40 quantification might have a potential for application in the evaluation of therapeutic intervention in dementias with a neuroinflammatory component.
Molecular Weight:	41.6 kDa. Due to glycosylation, the protein migrates to 42-50 kDa based on Tris-Bis PAGE result.
UniProt:	P36222

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human YKL-40/CHI3L1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human YKL-40/CHI3L1 is greater than 95 % as determined by SEC-HPLC.