

## Human recombinant CHI3L1 (Chitinase-3-like protein 1) protein, AF

Catalog Number: PROTP36222-4

### Overview

Product Name	Human recombinant CHI3L1 (Chitinase-3-like protein 1) protein, AF
Description	Chitinases and non-enzymatic chitinase-like proteins (CLPs, can bind chitin but cannot digest) belong to Glycoside hydrolase family 18. Human CHI3L1, YKL-40, is a CLP and a 42 kDa protein with 383 amino acid residues. The complex (CHI3L1, IL-13R alpha2 and IL-13) regulate downstream signal transduction pathway related to inflammation, proliferation and metastasis.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 41.43 kDa. The protein migrates as 40 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Testing in process

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MYKLVCCYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVTLYGMLNLTKNRNPNLKTLLSVGGWNFGSQRFKIASNTQSRRTF  
IKSVPPFLRTHGFDGLDLAWLYPGRRDQKHFTTLIKEMKAEFIKEAQPGKKQLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHS  
PLFRGQEDASPDRFSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEICDFLRGATVHRILGQQVPYATK  
GNQWVGYYDDQESVKSQVYKDRQLAGAMVWALDLDLDFQGSFCGQDLRFPLTNAIKDALAAT with polyhistidine tag at the C-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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