

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

MYKLVCYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVTLYGMLNLTKNRNPNLKTLLSVGGWNFGSQRFKSIASNTQSRRTF
IKSVPPFLRTHGFDGLDLAWLYPGRRDKQHFTTLIKEMKAEFIKEAQP GKKQLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHS
PLFRGQEDASPDRFSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEICDFLRGATVHRILGQQVPYATK
GNQWVGYYDDQESVKSQVQYKDRQLAGAMVWALDLDDFQGSFCGQDLRFPLTNAIKDALAAT 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 H₂O to a concentration not less than 100 ug/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

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



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