

Recombinant human Chitinase 3-like 1/CHI3L1 protein

Catalog Number: ATGP1962

PRODUCT INFORMATION

Expression system

CHO Cell

Domain

22-383aa

UniProt No.

P36222

NCBI Accession No.

NP_001267

Alternative Names

chitinase 3-like 1, cartilage glycoprotein-39, CGP-39; GP-39; hCGP-39, YKL40, YKL-40, YK-40, 39 kDa synovial protein, ASRT7

PRODUCT SPECIFICATION

Molecular Weight

43.3 kDa (387aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Myc-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Chitinases catalyze the hydrolysis of chitin, which is an abundant glycopolymer found in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases includes eight human family members. CHI3L1 is a glycoprotein member of the glycosyl hydrolase 18 family. The protein lacks chitinase activity and is secreted

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by activated macrophages, chondrocytes, neutrophils and synovial cells. This protein is thought to play a role in the process of inflammation and tissue remodeling. Recombinant human CHI3L1 protein was expressed with C-terminal myc-His-tag in CHO (chinese hamster ovary) cells using mammalian expression system and purified by using conventional chromatography techniques.

Amino acid Sequence

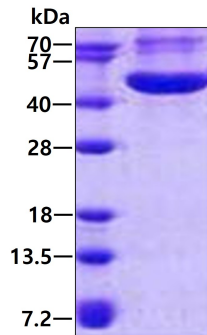
YKLVCIYTSW SQYREGDGSC FPDALDRFLC THIIYSFANI SNDHIDTWEW NDVTLYGMLN TLKRNPNLK TLLSVGGWNF
GSQRFSKIAS NTQSRRTFIK SVPPFLRTHG FDGLDLAWLY PGRRDQKHFT TLIKEMKAEF IKEAQPGKKQ LLLSAALSAG
KVTIDSSYDI AKISQHLDFI SIMTYDFHGA WRGTTGHHSP LFRGQEDASP DRFSNTDYAV GYMLRLGAPA SKLVMGIPTF
GRSFTLASSE TGVGAPISGP GIPGRFTKEA GTLAYYEICD FLRGATVHRI LGQQVPYATK GNQWVGYDDQ ESVKSKVQYL
KDRQLAGAMV WALDLDDFQG SFCGQDLRFP LTNAIKDALA AT<KLGPEQKL ISEEDLNSAV DHHHHHH>

General References

kazakova MH. et al. (2009) Folia Med. 51:5-14.
Bonneh-Barkay D. et al. (2008) Am J Pathol. 173:130-143.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.