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

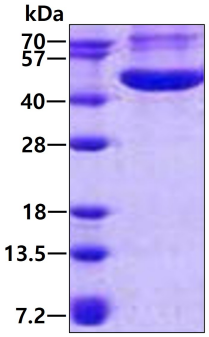
YKLVCYYTSW SQYREGDGSC FPDALDRFLC THIIYSFANI SNDHIDTWEW NDVTLYGMLN TLKNRNPNLK TLLSVGGWNF GSQRFSKIAS NTQSRRTFIK SVPPFLRTHG FDGLDLAWLY PGRRDKQHFT TLIKEMKAEF IKEAQPGKKQ LLLSAALSAG KVTIDSSYDI AKISQHLDFI SIMTYDFHGA WRGTTGHHSP LFRGQEDASP DRFSNTDYAV GYMLRLGAPA SKLVMGIPTF GRSFTLASSE TGVGAPISGP GIPGRFTKEA GTLAYYEICD 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.