Recombinant human Chitinase 3-like 1/CHI3L1 protein

Catalog Number: ATGP3405

PRODUCT INFORMATION

Expression system
Baculovirus

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
41.4 kDa (370aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

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

Tag
His-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
CHI3L1, also known as chitinase-3-like protein 1, is a member of the glycosyl hydrolase 18 family. This protein can bind heparins, probably as heparin sulfate. It has been found to enhance cell adhesion and promote cell signaling, proliferation and tumor angiogenesis. Elevated serum CHI3L1 levels occur in some conditions

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characterized by inflammation and connective tissue remodeling such as arthritis, chronic obstructive pulmonary disease, diabetes, cardiovascular disease, inflammatory bowel disease, and liver cirrhosis. Recombinant human CHI3L1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Amino acid Sequence

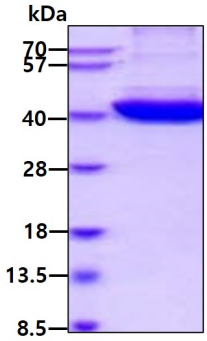
YKLVCYYTSW SQYREGDGSC FPDALDRFLC THIIYSFANI SNDHIDTWEW NDVTLYGMLN TLKNRNPNLK TLLSVGGWNF GSQRFSKIAS NTQSRRTFIK SVPPFLRTHG FDGLDLAWLY PGRGDKQHFT TLIKEMKAEF IKEAQPGKKQ LLLSAALSAG KVTIDSSYDI AKISQHLDFI SIMTYDFHGA WRGTTGHHSP LFRGQEDASP DRFSNTDYAV GYMLRLGAPA SKLVMGIPTF GRSFTLASSE TGVGAPISGP GIPGRFTKEA GTLAYYEICD FLRGATVHRI LGQQVPYATK GNQWVGYDDQ ESVKSKVQYL KDRQLAGAMV WALDLDDFQG SFCGQDLRFP LTNAIKDALA AT<LEHHHHHH>

General References

Hakala BE., et al. (1993) J Biol Chem 268:25803-25810.
Eurich K., et al. (2009) World J Gastroenterol. 15:5249-5259.

DATA

SDS-PAGE



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