

**AR50786PU-S****Human CHI3L1 (1-383, His-tag) - Purified****Alternate names:**

39 kDa synovial protein, CGP39, Cartilage glycoprotein 39, Chitinase-3-like protein 1, GP-39, YKL-40, hCGP-39

**Quantity:**

10 µg

**Concentration:**

0.25 mg/ml (determined by Bradford assay)

**Background:**

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 by activated macrophages, chondrocytes, neutrophils and synovial cells. This protein is thought to play a role in the process of inflammation and tissue remodeling.

**Uniprot ID:**[P36222](#)**NCBI:**[NP\\_001267](#)**GeneID:**[1116](#)**Species:**

Human

**Format:****State:** Liquid purified protein**Purity:** >90% by SDS - PAGE**Buffer System:** Phosphate -Buffered Saline (pH 7.4)**Description:**

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.

**AA Sequence:**

MGVKASQTGF VLVLLQCCS AYKLV CY YTS WSQYREGDGS CFPDALDRFL CTHIISFAN  
ISNDHIDTWE WNDVTLYGML NTLKNRNP NL KTL LSVGGWN FGSQRF SKIA SNTQSRRTFI  
KSVPPFLRTH GFDGLDLAWL YPGRRDKQHF T T L I K E M K A E F I K E A Q P G K K Q L L L S A A L S A  
GKVTIDSSYD IAKISQHLDF ISIMTYDFHG AWRGTTGHHS PLFRGQEDAS PDRFSNTDYA  
VGYMLRLGAP ASKLV MGIPT FGRSFTLASS ETGVGAPISG PGIPGRFTKE AGTLAYYEIC  
DFLRGATVHR ILGQQVPYAT KGNQWVG YDD QESVKS K V Q Y L K D R Q L A G A M V W A L D L D D F Q  
GSFCGQDLRF PLTNAIKDAL AATKLGPEQK LISEEDLN SA VDHHHHHH

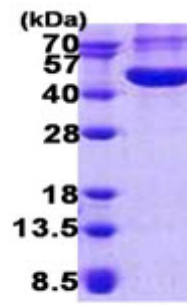
**Molecular weight:** 45.5 kDa (408aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.  
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**General Readings:**

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

Pictures:



15% SDS-PAGE (3ug)