

Chitinase-3-like Protein 1 Active Protein | CHI3L1 active protein

Active Chitinase-3-like Protein 1 (CHI3L1)

CATALOG #
AAA150108

APPLICATIONS
Activity Assay, Cell Culture

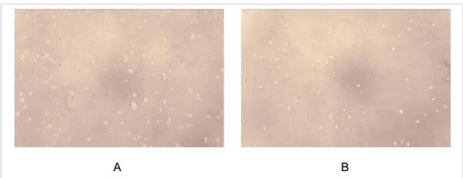
PRODUCT SYNONYMS

Chitinase-3-like Protein 1; Active Chitinase-3-like Protein 1 (CHI3L1); GP39; CHI3-L1; YKL40; Chondrex; Chitinase 3-Like 1; Chondrocyte Protein YKL40; 39 kDa synovial protein; CHI3L1 active protein

PRODUCT SPECIFICATIONS

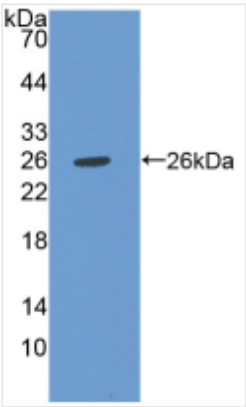
Purity/Purification	>97%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Asn112-Lys377
Sequence Length	383
Applicable Applications for CHI3L1 active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	9.3
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES

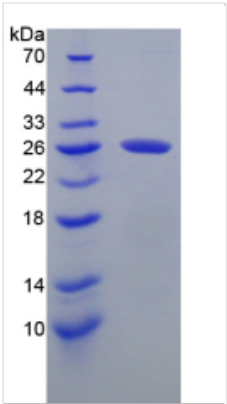


Application Data

Figure. Cell proliferation of Raji cells after stimulated with GP39. Glycoprotein 39, Cartilage (GP39) also known as Chitinase-3-like protein 1 (CHI3L1) is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. GP39 plays a role in cancer cell proliferation, survival, invasiveness and in the regulation of cell-matrix interactions. To test the effect of GP39 on cell proliferation, Raji cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well with 1% serum standard 1640 which contains various concentrations of recombinant human GP39. After incubated for 5 days, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37. Proliferation of Raji cells after incubation with GP39 for 5 days observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant GP39 for 5 days. The result was shown in Figure 2. It was obvious that GP39 significantly increased cell viability of Raji cells. (A) Raji cells cultured in 1640, stimulated with 10ng/mL GP39 for 5 days; (B) Unstimulated Raji cells cultured in 1640 for 5 days.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for CHI3L1 active protein	Metabolic pathway; Infection immunity; Bone metabolism; Rheumatology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	144226251
NCBI GeneID	1116
NCBI Accession #	NP_001267.2
NCBI GenBank Nucleotide #	NP_001267.2
UniProt Accession #	P36222
Molecular Weight	Predicted Molecular Mass: 33.2kDa Accurate Molecular Mass: 26kDa
NCBI Official Full Name	chitinase-3-like protein 1
NCBI Official Synonym Full Names	chitinase 3 like 1

NCBI Official Symbol	CHI3L1
NCBI Official Synonym Symbols	GP39; ASRT7; GP-39; YK-40; YKL40; CGP-39; YKL-40; YYL-40; HC-gp39; HCGP-3P; hCGP-39
NCBI Protein Information	chitinase-3-like protein 1
UniProt Protein Name	Chitinase-3-like protein 1
UniProt Gene Name	CHI3L1
UniProt Synonym Gene Names	CGP-39; GP-39; hCGP-39
UniProt Entry Name	CH3L1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/chi3l1-active-protein/chitinase-3-like-protein-1/150108>