

Human CHI3L1 protein, His tag (active)

Cat. No. GTX00219-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

Cell proliferation of Raji cells after stimulated with GP39. 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 5000 cells/well with 1% serum standard RPMI-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, 10 µl 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°C. Proliferation of Raji cells after incubation with GP39 for 5 days observed by inverted microscope.

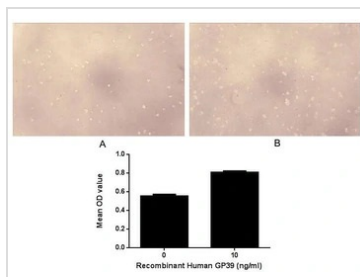
Observed MW (kDa) 26 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Asn112~Thr237+Ile299~Lys377 (NP_001267.2)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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DATA IMAGES

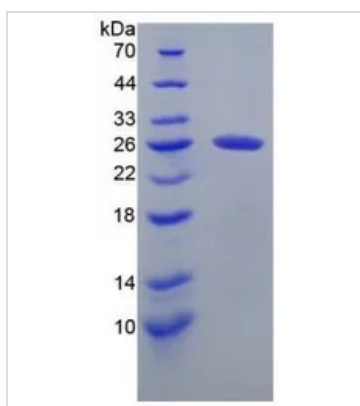


GTx00219-pro Functional Assay Image

Cell proliferation effect of GTX00219-pro Human CHI3L1 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

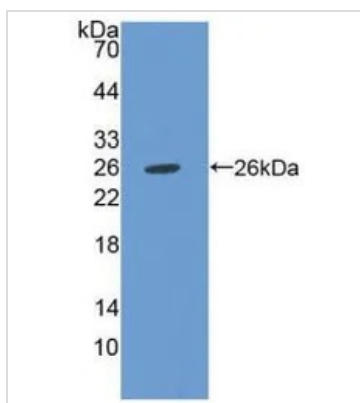
(A) Unstimulated Raji cells cultured in RPMI-1640 for 5 days.

(B) Raji cells cultured in RPMI-1640, stimulated with 10 ng/ml GP39 for 5 days.



GTx00219-pro Image

SDS-PAGE analysis of GTX00219-pro Human CHI3L1 protein (active).



GTx00219-pro Image

WB analysis of GTX00219-pro Human CHI3L1 protein (active).



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