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Product Datasheet

Rat CHI3L1 protein, His tag (active), Unconjugated GTX00364-PRO

Artikelname	Rat CHI3L1 protein, His tag (active), Unconjugated
Artikelnummer	GTX00364-PRO
Hersteller Artikelnummer	GTX00364-pro
Alternativnummer	GTX00364-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Rat
Konjugation	Unconjugated
NCBI	89824
UniProt	Q9WTV1
Puffer	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, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Tyr117~Lys364 (NP_001296749.1)

Anwendungsbeschreibung

Glycoprotein 39, Cartilage (GP39) also known as Chitinase-3-like protein 1 (CHI3L1), YKL-40 is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. GP39 may play a role in tissue remodeling and in the capacity of cells to respond to and cope with changes in their environment. Plays a role in T-helper cell type 2 (Th2) inflammatory response and IL-13-induced inflammation, regulating allergen sensitization, inflammatory cell apoptosis, dendritic cell accumulation and M2 macrophage differentiation. Facilitates invasion of pathogenic enteric bacteria into colonic mucosa and lymphoid organs. To test the effect of GP39 on cell proliferation, rat spleen cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well with 2% serum standard RPMI-1640 including various concentrations of recombinant rat GP39. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ l 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 37C. Proliferation of spleen cells after incubation with GP39 for 96h observed by inverted microscope.