

CYTL1 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	C4orf4;C17;cytokine-like 1
Protein Construction:	A DNA sequence encoding the human CYTL1 (NP_061129.1) (Met1-Arg136) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Thr 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9NRR1
Molecular Weight:	39.8 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cytokine-like protein 1 (CYTL1) is a small widely expressed secreted protein lacking significant primary sequence homology to any other known protein. Cytokine-like 1 (CYTL1) is a novel potential cytokine that was first identified in CD34(+) cells derived from bone marrow and cord blood, and it was also found using our immunogenomics strategy. CYTL1 expression appears to be highest in the hematopoietic system and in chondrocytes; however, maintenance of cartilage in mouse models of arthritis is its only reported function in vivo. Despite lacking

sequence homology to chemokines, CYTL1 is predicted by computational methods to fold like a chemokine, and has been reported to function as a chemotactic agonist at the chemokine receptor CCR2 in mouse monocyte/macrophages. Recombinant CYTL1 promoted calcium flux in chondrocytes. Cytokine-like protein 1 (Cyt1), had been described as a protein expressed in CD34+ cells, and as a functional secreted protein involved in chondrogenesis and cartilage development.

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