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Recombinant Human Thy-1/CD90 Protein

Catalog No.: RP01527 Recombinant

Sequence Information

Species Gene ID Swiss Prot HEK293 cells 7070 P04216

Tags

C-Rabbit Fc

Synonyms

CD90; CDw90;THY1;CDw90

Product Information

Source

Purification

HEK293 cells

> 95% by SDS-

PAGE.

Endotoxin

<0.1EU/µg

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Thy-1 membrane glycoprotein, also known as Thy-1 antigen, CD90 and THY1, is a cell membrane protein which contains 1 Ig-like V-type (immunoglobulin-like) domain. It is a glycophosphatidylinositol-linked glycoprotein expressed on the surface of neurons, thymocytes, subsets of fibroblasts, endothelial cells, mesangial cells and some hematopoietic cells. It has been identified on a variety of stem cells and at varying levels in non-lymphoid tissues such as on fibroblasts, brain cells, and activated endothelial cells. Thy-1 is evolutionarily conserved, developmentally regulated, and often has dramatic effects on cell phenotype. Thy-1 is a 25-37 kDa glycosylphosphatidylinositol (GPI)-anchored protein involved in T cell activation, neurite outgrowth, apoptosis, tumor suppression, wound healing, and fibrosis. To mediate these diverse effects, Thy-1 participates in multiple signaling cascades. Thy-1 is an important regulator of cell-cell and cell-matrix interactions, with important roles in nerve regeneration, metastasis, inflammation, and fibrosis.

Basic Information

Description

Recombinant Human Thy-1/CD90 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln20-Cys130) of human Thy-1/CD90 (Accession #NP_001298089.1) fused with a raFc tag at the C-terminus.

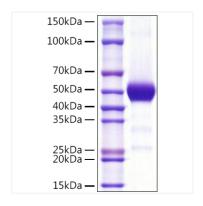
Bio-Activity

Storage

Store at -20° C. Store the lyophilized protein at -20° C to -80° C up to 1 year from the date of receipt.

 After reconstitution, the protein solution is stable at -20° C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Thy-1/CD90 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45-60 kDa.