Recombinant Human Thy-1/CD90 Protein

Catalog No.: RP01965

Sequence Information

Species
Human

Gene ID
7070

Swiss Prot
P04216

Tags
N-His

Synonyms
THY1,Thy-1 membrane glycoprotein, CDw90, Thy-1 antigen, CD90

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
13.38 kDa

Observed MW
25-35KDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

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.

Background

CD90, also known as Thy1, is an approximately 25-35 kDa glycoprotein that mediates cellular adhesion and exerts wide ranging effects in different tissues. CD90 is expressed on hematopoietic progenitor cells, neurons, and activated vascular endothelial cells. Its species-specific expression in lymphoid cells allows its use as a thymocyte and pan T cell marker in mouse but not in human. CD90 can form dimers and higher order multimers. It binds to heparin, the proteoglycan Syndecan-4, and Integrins alpha M beta 2, alpha V beta 3, and alpha V beta 5. Through these interactions, CD90 inhibits neurite outgrowth, promotes astrocyte adhesion, mediates the adhesion and extravasation of leukocytes and melanoma cells, supports the Thrombospondin-1 induced disassembly of fibroblast focal adhesions, and inhibits the activation of latent TGF-beta 1, myofibroblast differentiation, and lung fibrosis. Human Thy-1 shares 63% and 66% amino acids similarity with mouse and rat homolog.

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 His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

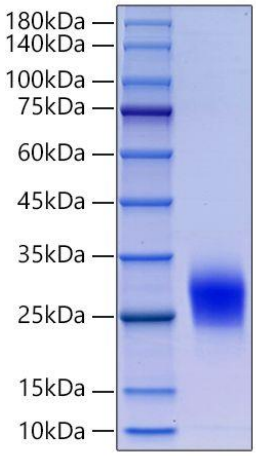
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Thy-1/CD90 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.