

Recombinant Human Thy-1/CD90 Protein

Catalog No.: RP01550LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7070	P04216

Tags

N-His

Synonyms

Thy-1 membrane glycoprotein; CDw90;
Thy-1 antigen; THY1; Thy-1; CD90

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Calculated MW **Observed MW**

Endotoxin

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

Formulation

Supplied as 0.22 μm filtered solution in PBS(pH7.4).

Reconstitution

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 His tag at the N-terminus.

Bio-Activity

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Contact

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