

Recombinant Human THY1 Protein (Met1-Cys130), His-tagged

Cat. No. THY1-657H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human THY1 Protein (NP_006279.2) (Met1-Cys130) was produced by HEK293 Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

Species Human

Source HEK293

ProteinLength Met1-Cys130

Description Thy-1 membrane glycoprotein, also known as Thy-1 antigen, CD9 and THY1, is a cell membrane protein which contains 1 Ig-like V-type (immunoglobulin-like) domain. It is a glycosylphosphatidylinositol-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.

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Predicted N Terminal	Gln 20
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human THY1 consists of 122 amino acids and predicts a molecular mass of 14 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	THY1 Thy-1 cell surface antigen [Homo sapiens]
Official Symbol	THY1

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Synonyms	THY1; Thy-1 cell surface antigen; CD90; CDw90; thy-1 antigen; Thy-1 T-cell antigen; FLJ33325;
Gene ID	7070
mRNA Refseq	NM_006288
Protein Refseq	NP_006279
MIM	188230
UniProt ID	P04216

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