

Recombinant Human CD44 protein, Fc-tagged (HPLC-verified)

Cat. No. CD44-3095H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD44 (Gln21-Pro220) protein (HPLC-verified) was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Gln21-Pro220
Description	CD44 antigen is a cell-surface glycoprotein involved in cell–cell interactions, cell adhesion and migration. CD44 is expressed in a large number of mammalian cell types. CD44 is a receptor for hyaluronic acid and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). CD44 function is controlled by its posttranslational modifications. One critical modification involves discrete sialofucosylations rendering the selectin-binding glycoform of CD44 called HCELL (for Hematopoietic Cell E-selectin/L-selectin Ligand). CD44 participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms.
Predicted N Terminal	Gln21
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

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Molecular Mass	This protein has a calculated MW of 48.7 kDa. The reducing (R) protein migrates as 76 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD44
Official Symbol	CD44
Synonyms	CD44; CD44 molecule (Indian blood group); CD44 antigen (homing function and Indian blood group system) , MDU2, MDU3, MIC4; CD44 antigen; CD44R; chondroitin sulfate proteoglycan 8; CSPG8; HCELL; hematopoietic cell E and L selectin ligand; IN; MC56; Pgp1; epican; Hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; heparan sulfate proteoglycan; cell surface glycoprotein CD44; extracellular matrix receptor III; GP90 lymphocyte homing/adhesion receptor; hematopoietic cell E- and L-selectin ligand; homing function and Indian blood group

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system; LHR; MDU2; MDU3; MIC4; CDW44; HUTCH-I; ECMR-III; MGC10468

Gene ID 960

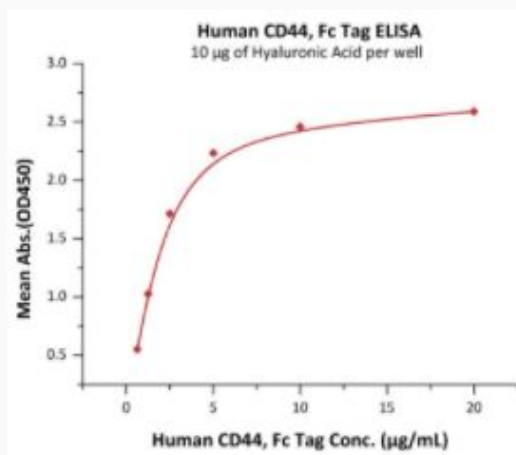
mRNA Refseq NM_000610

Protein Refseq NP_000601

MIM 107269

UniProt ID P16070

Bioactivity-ELISA



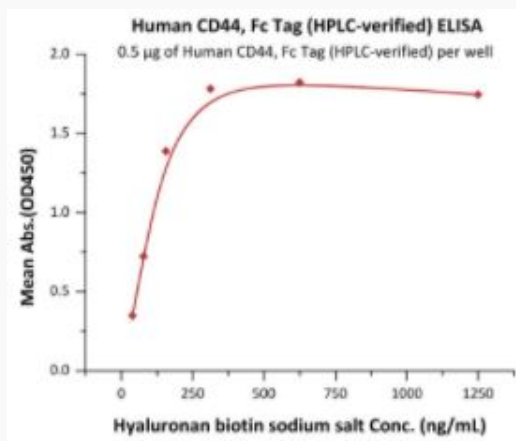
Immobilized Hyaluronic Acid at 100 µg/mL (100 µL/well) can bind Human CD44, Fc Tag (HPLC-verified) with a linear range of 0.156-2.5 µg/mL (Routinely tested).

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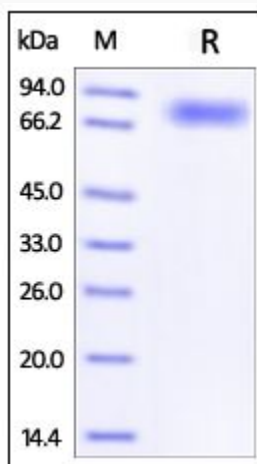
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Bioactivity-ELISA of CD44-3095H



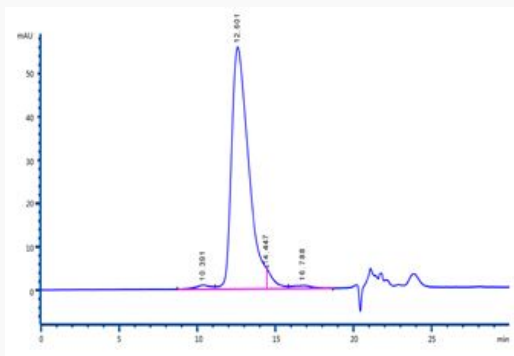
Immobilized Human CD44, Fc Tag (HPLC-verified) at 5 µg/mL (100 µL/well) can bind Hyaluronan biotin sodium salt with a linear range of 10-156 ng/mL (Routinely tested).

SDS-PAGE of CD44- 3095H



Human CD44, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-HPLC of CD44-3095H



The purity of Human CD44, Fc Tag (HPLC-verified) was greater than 90% as determined by SEC-HPLC.

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