

# Active Recombinant Human CD44, Fc-tagged, Biotinylated

**Cat. No.** CD44-578H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The recombinant human CD44-Fc is expressed as a 470 amino acid protein consisting of Gln21 - Thr263 region of CDw44 (UniProt accession #P16070 - isoform 12 or CDw44) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	21-263 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Immobilized CD44-Fc protein binds hyaluronan and anti-CD44 monoclonal antibodies, human IgG1, mouse IgG2a and rabbit IgG with high affinity (KD < 1=" nm)=" in=" a=" functional=" ">
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 52; Estimated by SDS-PAGE under reducing condition (kDa): 80-90
<b>AA Sequence</b>	QIDLNITCRFAGVVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKALSIGFETCR YGFIEGHVVIPRIHPN SICAANNTGVYILTSNTSQYDTYCFNASAPPEEDCTSVTDLP NAFDGPITITIVNRDGRYVQKGEYRTNPEDI YPSNPTDDDVS GSSSERSSSTSGGY IFYTFSTVHPIPDEDSPWITDSTDRIPATRDQDTFHPSGGSHHTHGSES DGHSHGSQ

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EGGANTTSGPIRTDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV  
 DVSHEDPEV KFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKE  
 YKCKVSNKALPAPIEKTISKAKGQPREP QVYTLPPSREEMTKNQVSLTCLVKGFYPS  
 DIAVEWESNGQPENNYKTTPVLDSDGSFFLYSKLTVDKSRWQQG NVFSCSVMHE  
 ALHNHYTQKSLSLSPGK

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** CD44 CD44 molecule (Indian blood group) [ Homo sapiens ]

**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](#)

**Chromosome Location** 11p13

**Pathway** Cytokine Signaling in Immune system, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem; Interferon Signaling, organism-specific biosystem;

**Function** binding; collagen binding; hyaluronic acid binding; hyaluronic acid binding; hyaluronic acid binding; hyaluronoglucosaminidase activity; protein binding; receptor activity; contributes\_to transmembrane signaling receptor activity;

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