

CD44 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	CDw44;Heparan sulfate proteoglycan;MDU2;MIC4;CD44;GP90 lymphocyte homing/adhesion receptor;Extracellular matrix receptor III (ECMR-III);Phagocytic glycoprotein I (PGP-I);LHR;Phagocytic glycoprotein 1 (PGP-1);Hermes antigen;Hyaluronate receptor;CD44 antigen;Epican;HUTCH-I;MDU3
Protein Construction:	21-606 aa
Species:	Human
Expression Host:	E. coli
Accession:	P16070
Molecular Weight:	80.2 kDa (predicted)
AA Sequence:	QIDLNITCRFAGVFHVEKNGRYSISRTEAADLCKAFNSTLPTMAQMEKALSIGFETCRYGFIEGHVVIPRIHPNSI CAANNTGVYILTSNTSQYDTCFNASAPPEEDCTSVTDLPNAFDGPITITIVNRDGRYVQKGEYRTNPEDIYP SNPTDDDVSSGSSERSSTSGGYIFYTFSTVHPIPEDSPWITDSTDRIPATSTSSNTISAGWEPNEENEDERDR HLSFSGSIDDEDIFISSTISTTPRAFDHTKQNQDWTQWNPSHSNPEVLLQTTTRMTDQVDRNGTTAYEGNW NPEAHPPLIHHEHHEEETPHSTSTIQATPSSTTEETATQKEQWFGNRWHEGYRQTPREDSHSTTGTAASA HTSHPMQGRTPSPEDSSWTDFFNPISHPMGRGHQAGRRMDMDSSHSTTLQPTANPNTGLVEDLDRGPL SMTTQQSNSQSFSTSHGLEEDKDHPTTSTLTSSNRNDVTGGRRDPNHSEGSTLLEGYTSHYPHTKESRTFI PVTSAKTGSFGVTAVTVGDSNSNVNRSLSGDQDTFHPSGGSHHTHGESDGHSHGSQEGGANNTSGPIRTP QIPE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases. Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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