Recombinant Human CD44 Protein (His Tag)

Catalog No. PKSH032218

Note: Centrifuge before opening to ensure complete recovery of vial contents.

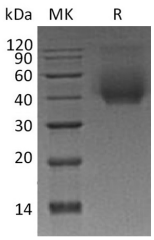
Description

Synonyms	CDW44;CSPG8;ECMR-III;HCELL;HUTCH-I;IN;LHR;MC56;MDU2;MDU3;MIC4;Pgp1;Epican;Extracellular Matrix Receptor III;ECMR-III;GP90 Lymphocyte Homing/Adhesion Receptor;HUTCH-I;Heparan Sulfate Proteoglycan;Hermes Antigen;Hyaluronate Receptor;Phagocytic Glycoprotein 1;PGP-1;Phagocytic Glycoprotein I;PGP-I;CD44
Species	Human
Expression Host	HEK293 Cells
Sequence	Gln21-Pro220
Accession	P16070
Calculated Molecular Weight	23.1 kDa
Observed molecular weight	38-50 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

CD44 is a cell-surface receptor for hyaluronic acid and also interacts with other ligands; such as osteopontin; collagens; and matrix metalloproteinases. A large number of CD44 isoforms can be generated by the insertion of different combinations of at least nine exons. Increased CD44 antigen is associated with relapses in non-small cell lung cancers. Furthermore; an increasing quantity of evidence suggests that CD44 has various functions related to inflammatory disease. CD44 deficiency induces severe liver injury. CD44-hyaluronate mediates in lymphocyte T and monocyte adhesion to the endothelium; stimulates proinflammatory cytokine release from macrophages and participates in dedifferentiation phenotype of smooth muscle cells from contractile state to synthetic one.

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