

Recombinant Human CD44 Protein (His Tag)

Catalog Number: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

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°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping

This product is provided as lyophilized powder which is shipped with ice packs.

Formulation

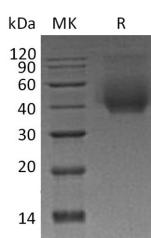
Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Please refer to the specific buffer information in the printed man

Reconstitution

Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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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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