Recombinant Human CD44 Protein

Catalog No.: RP00535

Sequence Information

Species
Human

Gene ID
960

Swiss Prot
P16070-1

Tags
C-His

Synonyms
CD44; CDw44; Epican; ECMR-III; LHR; MDU2; MDU3; MIC4; PGP-I; CSPG8; HCELL; HUTCH-I; IN; MC56

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
27.91 kDa

Observed MW
45-68 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

CD44 is a hyaluronan binding cell surface signal transducing receptor that influences motility, cell survival and proliferation as well as the formation of tumor microenvironment. CD44 contains two variable regions encoded by variable exons. Alternative splicing, which is often deregulated in cancer, can produce various isoforms of CD44 with properties that may have different tissue specific effects and therefore even diverse effects on cancer progression

Basic Information

Description
Recombinant Human CD44 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln21-Pro220 & Gln386-Ala427) of Human CD44 (Accession #P16070-1) fused with a C-His tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

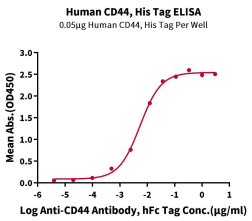
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

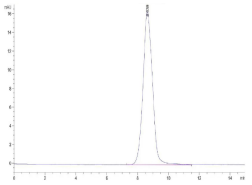
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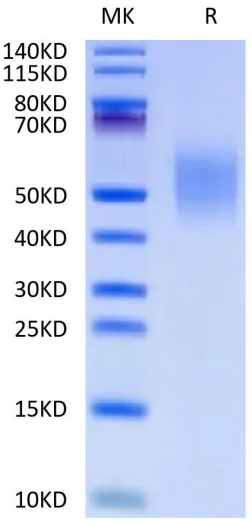
Validation Data



Immobilized Human CD44, His Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Anti-CD44 Antibody, hFc Tag with the EC_{50} of 5.5ng/mL determined by ELISA.



The purity of Human CD44 is greater than 95% as determined by SEC-HPLC.



Recombinant Human CD44 Protein was determined by Tris-Bis PAGE under reducing conditions.