Recombinant Human CD47 Protein

Catalog No.: RP00531

Sequence Information

Species
Human

Gene ID
961

Swiss Prot
Q08722-1

Tags
C-hFc

Synonyms
CD47 glycoprotein; CD47 molecule; CD47; IAP; OA3; MER6

Product Information

Source
HEK293 cells

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

Calculated MW
40.5 kDa

Observed MW
55-65 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

CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPα).CD-47 acts as a don't eat me signal to macrophages of the immune system which has made it a potential therapeutic target in some cancers.

Basic Information

Description
Recombinant Human CD47 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Pro139) of Human CD47 (Accession #Q08722-1) fused with a C-hFc 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℃

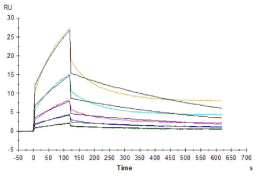
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

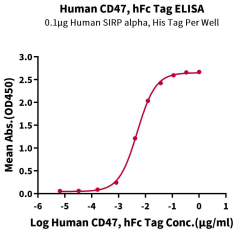
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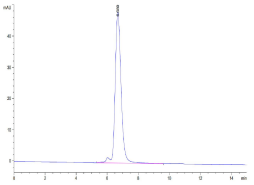
Validation Data



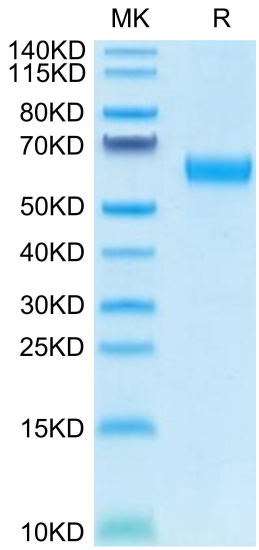
Human CD47, hFc Tag captured on Protein A chip via Anti-His Antibody can bind Human Sirpa V2, His Tag with an affinity constant of 13.8nM as determined in SPR assay (Biacore T200).



Immobilized Human SIRP alpha, His Tag at 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC_{50} of 5.0ng/mL determined by ELISA (QC Test).



The purity of Human CD47 is greater than 95% as determined by SEC-HPLC.



Recombinant Human CD47 Protein was determined by Tris-Bis PAGE under reducing conditions.

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