

# Recombinant Human CD47 Protein

Catalog No.: RP00974 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	961	Q08722

### Tags

C-hFc&His

### Synonyms

CD47; IAP; MER6; OA3; CD47 molecule; IAP; MER6; OA3

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
40.51 kDa	60-70 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

This protein is a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This protein has broad tissue distribution, and is reduced in expression on Rh erythrocytes.

## Basic Information

### Description

Recombinant Human CD47 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln19-Pro139) of human CD47 (Accession #NP\_001768.1) fused with an Fc, 6×His tag at the C-terminus.

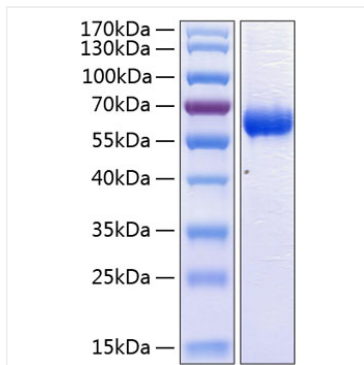
### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human CD47 at 1 μg/mL (100 μL/well) can bind Recombinant Human SIRP alpha with a linear range of 1-6 ng/mL.

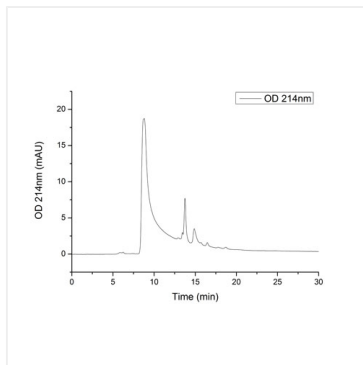
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

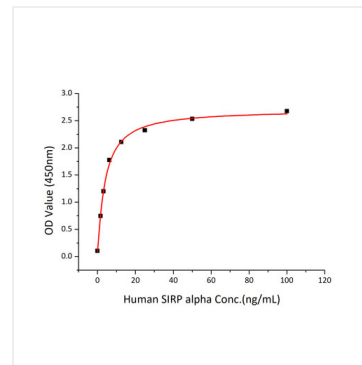
## Validation Data



Active Recombinant Human CD47 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.



The purity of Human CD47 Protein (Cat.RP00974) was greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human CD47 at 1  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind Recombinant Human SIRP alpha with a linear range of 1-6 ng/mL.