# **Recombinant Human CD47 Protein**

ABclonal

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Catalog No.: RP00974 Recombinant

# **Sequence Information**

**Species** Gene ID **Swiss Prot** Human 961 008722

Tags C-hFc&His

**Synonyms** 

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

# **Product Information**

Source

**Purification** 

HEK293 cells

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

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 stablizer (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.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

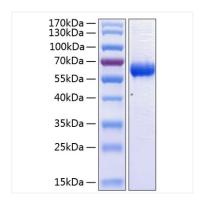
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

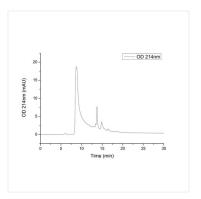
#### **Operational Notes**

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

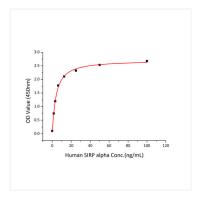
# **Validation Data**



Recombinant Human CD47 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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



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