# **Recombinant Mouse CD47 Protein**

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Catalog No.: RP00711 Recombinant

### **Sequence Information**

**Species Gene ID Swiss Prot**Mouse 16423 Q61735-1

### Tags

C-hFc

### **Synonyms**

Leukocyte Surface Antigen CD47; Antigenic Surface Determinant Protein OA3; Integrin-AssociatedProtein; IAP; Protein MER6; CD47; MER6

### **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE.

PAG

Calculated MW Observed MW

39.80 kDa 60-70 kDa

#### **Endotoxin**

< 0.01 EU/ $\mu$ g of the protein by LAL method

### **Formulation**

Lyophilized from a  $0.2 \mu m$  filtered solution of PBS, pH7.4.

#### 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**

CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a glycosylated atypical member of theimmunoglobulin superfamily. Mouse CD47 is an integral membrane protein that consists of a extracellulardomain (ECD) with a single Ig-like domain, five membrane-spanning regions with short intervening loops, andC-terminal cytoplasmic tail. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1on platelets, and in the modulation of integrins. It plays an important role in memory formation and synapticplasticity in the hippocampus. As a receptor for SIRPA, it binding to which prevents maturation of immaturedendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, it enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cellactivation. It may play a role in membrane transport and/or integrin dependent signal transduction. It alsoprevents premature elimination of red blood cells.

### **Basic Information**

#### **Description**

Recombinant Mouse CD47 Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Gln19-Lys140) of mouse CD47/IAP/OA3 (Accession #Q61735-1) fused with an Fc tag at the C-terminus.

### **Bio-Activity**

#### 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.

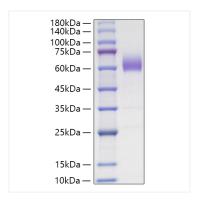
Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

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

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## **Validation Data**



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