

Recombinant Mouse CD47 Protein

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-Associated Protein; IAP;
Protein MER6; CD47; MER6

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
39.80 kDa	60-70 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from a 0.2 μm 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

CD47, also known as Integrin-Associated Protein (IAP) and OA3, is a glycosylated atypical member of the immunoglobulin superfamily. Mouse CD47 is an integral membrane protein that consists of an extracellular domain (ECD) with a single Ig-like domain, five membrane-spanning regions with short intervening loops, and a C-terminal cytoplasmic tail. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. It plays an important role in memory formation and synaptic plasticity in the hippocampus. As a receptor for SIRPA, its binding to which prevents maturation of immature dendritic 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-cell activation. It may play a role in membrane transport and/or integrin-dependent signal transduction. It also prevents 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

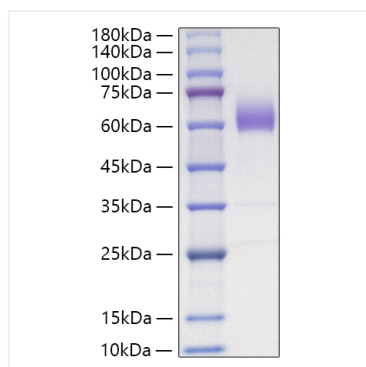
Storage

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



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