

Recombinant Mouse CD47 Protein

Catalog No.: RP00711

Sequence Information

Species **Gene ID**
Mouse 16423

Swiss Prot **Tags**
Q61735-1 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.

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.

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°C

Operational Notes

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

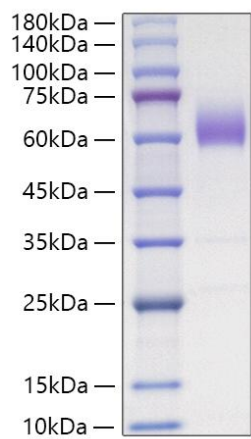
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Validation Data



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