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Recombinant Mouse CD47 Protein

Catalog No.: RP00762 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	16423	Q61735-1

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
> 95% by SDS-PAGE.

Endotoxin
<0.1 EU/μg

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex 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 mediatescellcell 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.

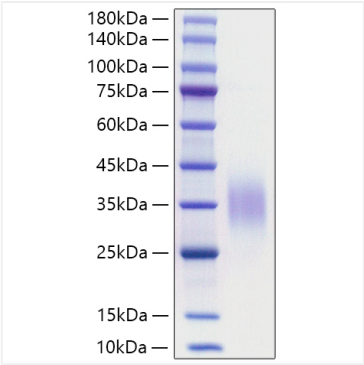
Basic Information

Description
Recombinant Mouse CD47/IAP/OA3 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 a 6×His tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
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 with Coomassie Blue, showing a band at 25-45 kDa.