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

Calculated MW	Observed MW
14.68 kDa	25-45 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.

Reconstitution
Centrifuge the tube 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.

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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

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

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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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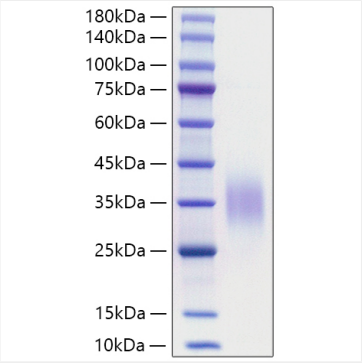
Validation Data



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

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