Active Recombinant Mouse Cd47 protein, Fc-tagged

Cat. No. Cd47-645M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cd47(Gln19-Pro158) fused with Fc of Human IgG1 at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	Gln19-Pro158
Predicted N Terminal	Gln19 predicted, no results obtained, sequencing might be blocked
Form	Lyophilized from a 0.2 μm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse SIRP alpha /CD172a Fc Chimera is coated at 2 μg/mL, Recombinant Mouse CD47 Fc Chimera binds with an apparent KD <0.6 nM.Also measured by its ability to antagonize mouse red blood cell adhesion to immobilized Recombinant Mouse SIRP alpha /CD172a Fc Chimera. The ED50 for this effect is typically 2.0-8.0 μg/mL.Optimal dilutions should be determined by each laboratory for each application.
Molecular Mass	Predicted Molecular Mass: 42.3 (monomer) kDa;SDS-PAGE: 60-70 kDa, reducing conditions
Endotoxin	<0.01 EU per 1 μg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 centigrade as supplied.1 month, 2 to 8 centigrade under sterile conditions after reconstitution.3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 µg/mL in PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	Cd47 CD47 antigen (Rh-related antigen, integrin-associated signal transducer) [Mus musculus]
Official Symbol	Cd47
Synonyms	CD47; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); leukocyte surface antigen CD47; Rh-related antigen; integrin-associated protein; IAP; Itgp; AA407862; AI848868; AW108519; 9130415E20Rik; B430305P08Rik;
Gene ID	16423
mRNA Refseq	NM_010581
Protein Refseq	NP_034711
MIM	

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UniProt ID	Q61735
Chromosome Location	16; 16 B5
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Hemostasis, organism-specific biosystem; Signal regulatory protein (SIRP) family interactions, organism-specific biosystem;
Function	protein binding; thrombospondin receptor activity;

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