

Recombinant Human CD47 protein(Met1-Pro139), hFc-tagged

Cat. No. CD47-2332H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD47 (NP_942088.1) (Met1-Pro139) was expressed in HEK293 with the Fc region of Human IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Pro139
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized human SIRPA-His at 10 µg/ml (100 µl/well) can bind human CD47-Fc, The EC50 of human CD47-Fc is 10.1-23.5 ng/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized mouse SIRPA-His at 10 µg/ml (100 µl/well) can bind human CD47-Fc, The EC50 of human CD47-Fc is 0.05-0.13 µg/ml. 3. Measured by its binding ability in a functional ELISA. Immobilized human SIRPG-His at 10 µg/ml (100 µl/well) can bind human CD47-Fc, The EC50 of human CD47-Fc is 0.58-1.34 µg/ml.
Molecular Mass	The recombinant human CD47/Fc is a disulfide-linked homodimer. The reduced monomer comprises 362 amino acids and has a predicted molecular mass of 40.7 kDa. The apparent molecular mass of the protein is approximately 48-60 kDa in SDS-PAGE under reducing conditions due to glycosylation.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD47 CD47 molecule [Homo sapiens]
Official Symbol	CD47
Synonyms	CD47; CD47 molecule; CD47 antigen (Rh related antigen, integrin associated signal transducer) , MER6; leukocyte surface antigen CD47; antigen identified by monoclonal 1D8; antigenic surface determinant protein OA3; CD47 glycoprotein; IAP; integrin associated protein; OA3; Rh related antigen; Rh-related antigen; integrin-associated protein; integrin-associated signal transducer; CD47 antigen (Rh-related antigen, integrin-associated signal transducer); MER6;
Gene ID	961
mRNA Refseq	NM_001777
Protein Refseq	NP_001768
MIM	601028

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UniProt ID

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