

Leukocyte surface antigen CD47 Active Protein | CD47 active protein

Recombinant Human Leukocyte surface antigen CD47 (CD47), partial

CATALOG #
AAA244029

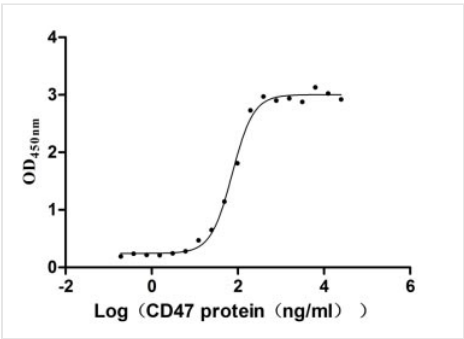
HOST
Mammalian Cell

PRODUCT SYNONYMS

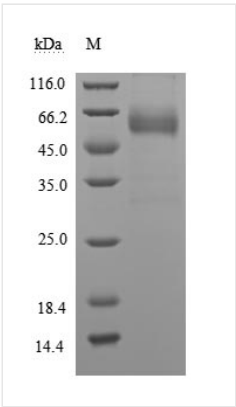
Leukocyte surface antigen CD47; Recombinant Human Leukocyte surface antigen CD47 (CD47); partial; Antigenic surface determinant protein OA3 Integrin-associated protein; IAP; Protein MER6; CD47; CD47 active protein

PRODUCT SPECIFICATIONS

Host	Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH7.4 Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	19-139aa, Partial
Sequence	QLLFNKT KSV EFTFCNDTVV IPCFVTNMEA QNTTEVYVKW KFKGRDIYTF DGALNKSTVP TDFSSAKIEV SQLLKGDASL KMDKSDAVSH TGNYTCEVTE LTREGETIIE LKYRVVSWFS P
Species	Human
Endotoxin	Less than 1.0EU/ug as determined by LAL method.
Biological Activity	1: Measured by its binding ability in a functional ELISA. Immobilized SIRPA at 2ug/ml can bind human CD47, the EC50 of human CD47 protein is 65.91-82.42ng/ml. 2: Human SIRPA protein His/Myc tag captured on COOH chip can bind Human CD47 protein Fc tag with an affinity constant of 19.1 nM as detected by LSPR Assay.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.



Bioactivity



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for CD47 active protein	Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins.
Product Categories/Family for CD47 active protein	Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	1171879
NCBI GeneID	961
UniProt Accession #	Q08722; Q53Y71; Q96A60; A8K198; D3DN59
Molecular Weight	323
NCBI Official Full Name	Leukocyte surface antigen CD47
NCBI Official Synonym Full Names	CD47 molecule
NCBI Official Symbol	CD47
NCBI Official Synonym Symbols	IAP; OA3; MER6
NCBI Protein Information	leukocyte surface antigen CD47; CD47 glycoprotein; Rh-related antigen; integrin associated protein; integrin-associated protein; integrin-associated signal transducer; antigenic surface determinant protein OA3; antigen identified by monoclonal antibody 1D
UniProt Protein Name	Leukocyte surface antigen CD47
UniProt Gene Name	CD47
UniProt Synonym Gene Names	MER6; IAP
UniProt Entry Name	CD47_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.