

## Recombinant Human CD47 (C-6His)

Catalog No: C321

<b>Description</b>	Recombinant Human Leukocyte Surface Antigen CD47 is produced by our Mammalian expression system and the target gene encoding Gln19-Pro139 is expressed with a 6His tag at the C-terminus.	
<b>Source</b>	Human cells	
<b>Alternative name</b>	Leukocyte Surface Antigen CD47; Antigenic Surface Determinant Protein OA3; Integrin- Associated Protein; IAP; Protein MER6; CD47; MER6	
<b>Accession No.</b>	Q08722	
<b>Predicted Molecular Weight</b>	14.76kDa	
<b>AP Molecular Weight</b>	30-45kDa, reducing conditions.	
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 10mM Tris-Citrate, 150mM NaCl, pH 8.0.	
<b>Quality Control</b>	Bioactivity	Immobilized Human SIRPA-Fc (Cat#CP67) at 10µg/ml (100 µl/well) can bind Human CD47-His (Cat#C321). The ED50 of Human CD47-His(Cat#C321) is 13-89 ng/ml.
	Purity	Greater than 95% as determined by reducing SDS-PAGE.
	Endotoxin	Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.	
	It is not recommended to reconstitute to a concentration less than 100µg/ml.	
	Dissolve the lyophilized protein in distilled water.	
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.	

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

**Storage** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.  
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.  
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Background** CD47(Integrin-Associated Protein,IAP) is a 40 - 60 kDa variably glycosylated atypical member of the immunoglobulin superfamily. The ubiquitously expressed CD47 binds to SIRP family members on macrophages, neutrophils, and T cells. CD47 is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The protein is also a receptor for the C-terminal cell-binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This protein has broad tissue distribution, and is reduced in expression on Rh erythrocytes.

### SDS-PAGE

