#### Rat CD47 Protein

#### CD7-RM247 Cat. No.



Description	
Source	Recombinant Rat CD47 Protein is expressed from HEK293 with hFc tag at the C-terminus.
	It contains Gln19-Lys140.
Accession	P97829-1
Molecular Weight	The protein has a predicted MW of 40.40 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage		
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.	
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.	
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.	

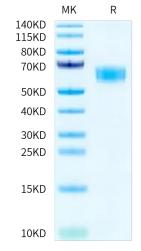
## **Background**

CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory protein alpha (SIRPα).CD-47 acts as a don't eat me signal to macrophages of the immune system which has made it a potential therapeutic target in some cancers.

Rat CD47 on Tris-Bis PAGE under reduced

#### **Assay Data**

#### **Tris-Bis PAGE**

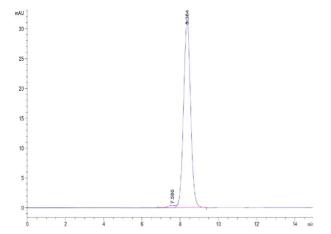


condition. The purity is greater than 95%.

**SEC-HPLC** 

# KAGTUS

## **Assay Data**



The purity of Rat CD47 is greater than 95% as determined by SEC-HPLC.

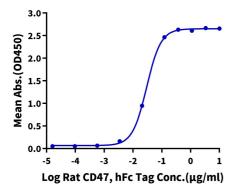


#### **Assay Data**

**ELISA Data** 

#### Rat CD47, hFc Tag ELISA

0.2μg Mouse SIRP alpha, His Tag Per Well



Immobilized Mouse SIRP alpha, His Tag at  $2\mu g/ml$  (100 $\mu l/well$ ) on the plate. Dose response curve for Rat CD47, hFc Tag with the EC50 of 29.8ng/ml determined by ELISA.