

For Research Use Only

# Recombinant Human CD47 protein (Myc Tag, His Tag)



Catalog Number: Eg31499

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
Myc Tag, His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human CD47 protein Gln19-Pro139 (Accession# Q08722-1) with a Myc tag and a His tag at the C-terminus.

**GeneID:**

961

**Accession:**

Q08722-1

**Predicted Molecular Mass:**

19.3 kDa

**SDS-PAGE:**

32-45 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD47, also known as integrin-associated protein (IAP), is a member of the immunoglobulin superfamily containing a five-pass transmembrane attachment. CD47 is heavily glycosylated and widely expressed by hematopoietic and nonhematopoietic cells. CD47 interacts with several membrane integrins and also acts as a receptor for thrombospondin (THBS1). It is involved in a range of cellular processes, including apoptosis, proliferation, adhesion, and migration. CD47 also functions as a ligand for signal regulatory protein- $\alpha$  (SIRP  $\alpha$ ). Upon binding CD47, SIRP  $\alpha$  initiates a signaling cascade that results in the inhibition of phagocytosis.

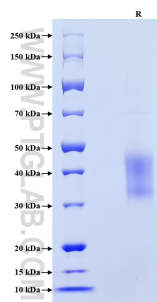
## References

1. Brown, E. The Journal of clinical investigation vol. 107,12 (2001): 1499-500.
2. Sick, E et al. British journal of pharmacology vol. 167,7 (2012): 1415-30.
3. Barclay, A Neil, and Timo K Van den Berg. Annual review of immunology vol. 32 (2014): 25-50.

## Synonyms

CD47 molecule, IAP, Integrin associated protein, Integrin-associated protein, Leukocyte surface antigen CD47

## Selected Validation Data



Purity of Recombinant Human CD47 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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