

Recombinant Human CD47 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg1767

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ µg protein, LAL method

Source:
HEK293-derived Human CD47 protein Gln19-Pro139 (Accession# Q08722-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
961

Accession:
Q08722-1

Predicted Molecular Mass:
40.0 kDa

SDS-PAGE:
50-60 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 µm 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- α (SIRP α). Upon binding CD47, SIRP α initiates a signaling cascade that results in the inhibition of phagocytosis.

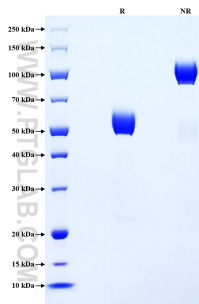
References

1. Brown, E. (2001) J Clin Invest. Jun 15;107(12):1499–1500.
2. Entsar Eladl. et al.(2001) J Hematol Oncol. 2020 Jul 16;13:96.
3. Eric Brown.(2001) J Clin Invest. 107(12):1499–1500.
4. Yoji Murata. et al(2018) Cancer Sci.109(8):2349–2357.

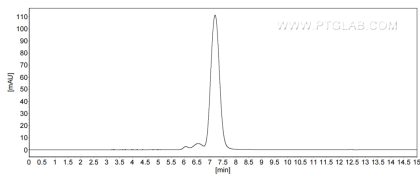
Synonyms

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) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human CD47 was greater than 90% as determined by SEC-HPLC.