

Recombinant Rat CD47 Protein

Catalog No.: RP01669 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	29364	P97829

Tags

C-hFc

Synonyms

Itgp \square CD47

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
39.72 kDa	50-65 kDa

Endotoxin

<0.1EU/ μ g

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain and is a receptor for the C-terminal cell binding domain of thrombospondin. It may play a role in membrane transport and signal transduction. CD47 is also a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. It is very broadly distributed on normal adult tissues, as well as ovarian tumors, being especially abundant in some epithelia and the brain. CD47 may play a role in membrane transport and/or integrin dependent signal transduction. It may prevent premature elimination of red blood cells. It also may be involved in membrane permeability changes induced following virus infection. By acting as an adhesion receptor for THBS1 on platelets, CD47 plays a role in both cell adhesion and in the modulation of integrins. It also plays an important role in memory formation and synaptic plasticity in the hippocampus.

Basic Information

Description

Recombinant Rat CD47 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln 19 - Lys 140) of rat CD47 (Accession #NP_062068.1) fused with and a hFc tag at the C-terminus.

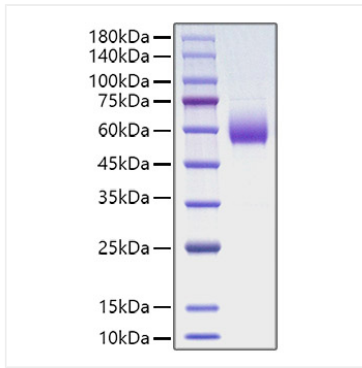
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD172a (Catalog: RP00285) at 2 μ g/mL (100 μ L/well) can bind Human CD47 (Catalog: RP01669) with a linear range of 19.5-3491.5ng/mL.

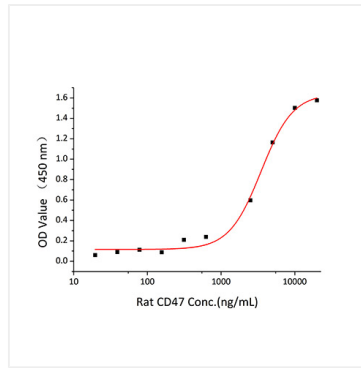
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat CD47 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 57-62 kDa.



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