

Recombinant Rat CD47 Protein

Catalog No.: RP01669

Sequence Information

Species **Gene ID**
Rat 29364

Swiss Prot **Tags**
P97829 C-hFc

Synonyms
Itgp; CD47

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
39.72 kDa 50–65 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL
method.

Formulation
Lyophilized from a 0.22 μm 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.

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.

Activity

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

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

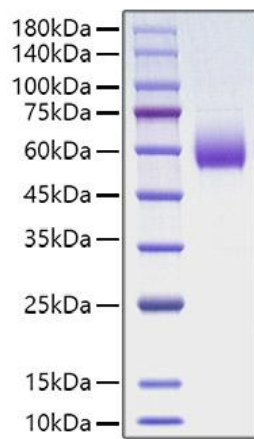
Contact

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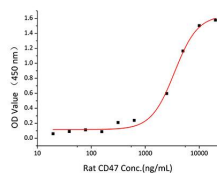
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Validation Data



Recombinant Rat CD47 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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