

## Recombinant Human CD47 Protein

RPCB0557

### Protein Information

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<b>Size:</b>	100 µg	<b>Tag:</b>	C-hFc
<b>Reactivity:</b>	Human	<b>Expressed Host:</b>	HEK293 cells
<b>Calculated MW:</b>	40.5 kDa	<b>Observed MW:</b>	55-65 kDa

### Background

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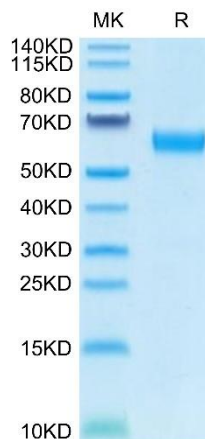
CD47 (Cluster of Differentiation 47) also known as integrin associated protein (IAP) is a transmembrane protein that in humans is encoded by the CD47 gene. CD47 belongs to the immunoglobulin superfamily and partners with membrane integrins and also binds the ligands thrombospondin-1 (TSP-1) and signal-regulatory 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.

### Properties

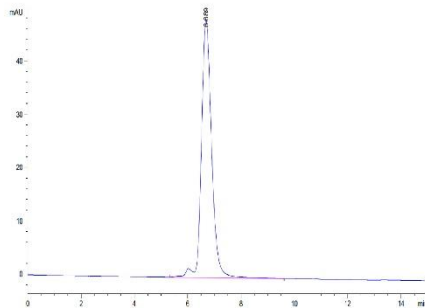
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<b>Synonyms:</b>	CD47 glycoprotein, CD47 molecule, CD47, IAP, OA3, MER6
<b>Gene ID:</b>	961
<b>Endotoxin:</b>	< 1 EU/µg of the protein by LAL method.
<b>Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Human CD47 Protein (RPCB0557), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.
<b>Purity:</b>	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.
<b>Storage:</b>	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.

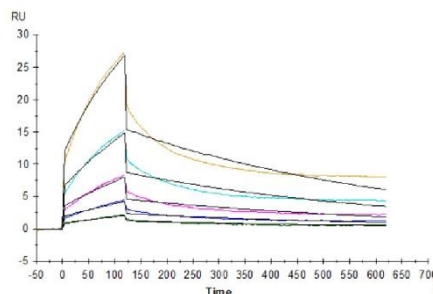
## Validation Data



Recombinant Human CD47 Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Human CD47, hFc Tag captured on Protein A chip via Anti-His Antibody can bind Human Sirpa V2, His Tag with an affinity constant of 13.8nM as determined in SPR assay (Biacore T200).