

Datasheet for ABIN7274237

CD47 Protein (CD47) (AA 19-140) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD47
Protein Characteristics:	AA 19-140
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD47 protein is labelled with His tag.

Product Details

Purpose:	Mouse CD47 Protein
Sequence:	Gln19-Lys140
Characteristics:	Recombinant Mouse CD47 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gln19-Lys140.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 1.33 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	CD47
Alternative Name:	CD47 (CD47 Products)
Background:	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.
Molecular Weight:	14.9 kDa. Due to glycosylation, the protein migrates to 35-50 kDa based on Tris-Bis PAGE result.

Application Details

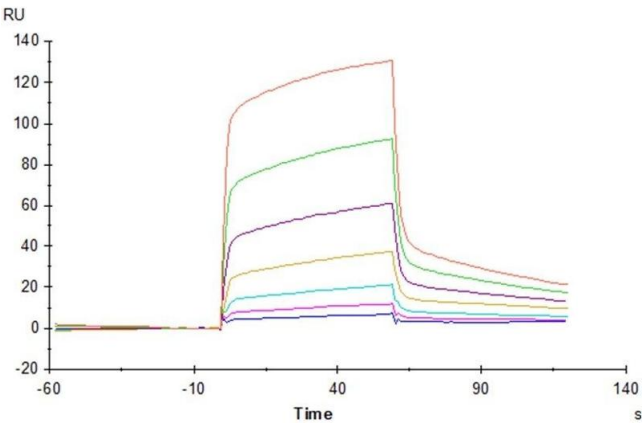
Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

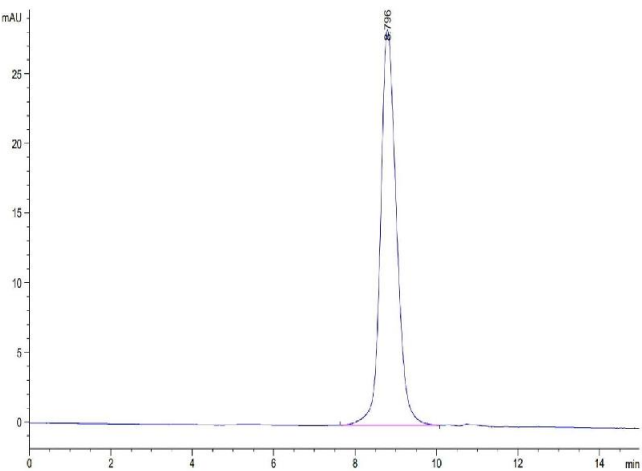
Surface Plasmon Resonance

Image 1. Mouse SIRP alpha, His Tag immobilized on CM5 Chip can bind Mouse CD47, His Tag with an affinity constant of 1.33 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse CD47 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Mouse CD47 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

