

FITC-Labeled Human CD47 Protein

Cat. No. CD7-HM147F

Description

Source	Recombinant FITC-Labeled Human CD47 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln19-Pro139.
Accession	Q08722-1
Molecular Weight	The protein has a predicted MW of 14.5 kDa. Due to glycosylation, the protein migrates to 45-55 kDa based on Bis-Tris PAGE result.
Wavelength	Excitation Wavelength: 490 nm Emission Wavelength: 520 nm
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

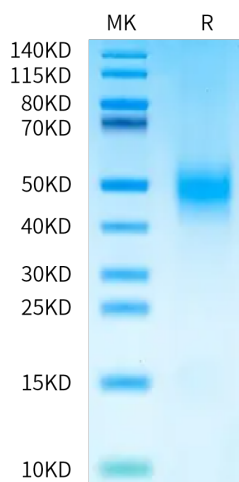
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 6 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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 (SIRP α). 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.

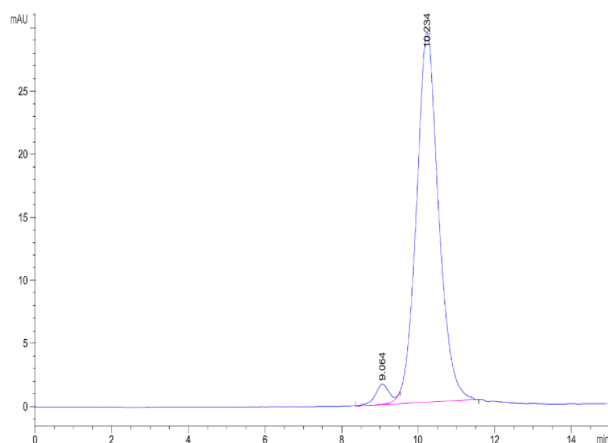
Assay Data

Bis-Tris PAGE



FITC-Labeled Human CD47 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



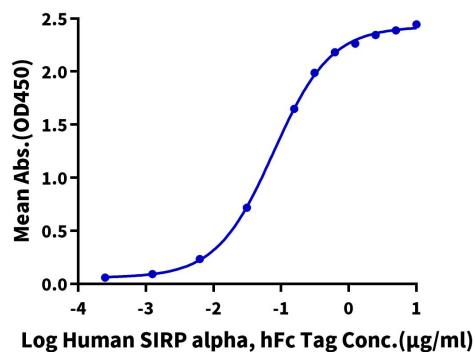
The purity of FITC-Labeled Human CD47 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

FITC-Labeled Human CD47, His Tag ELISA

0.1µg FITC-Labeled Human CD47, His Tag Per Well



Immobilized FITC-Labeled Human CD47, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 77.4ng/ml determined by ELISA (QC Test).