

Human SIRP alpha/CD172a Protein

HA210252



Product name:	Human SIRP alpha/CD172a Protein
Species reactivity:	Human
Protein construction description:	Recombinant Human SIRP alpha/CD172a Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Glu31-Arg370.

Background: Signal regulatory protein α (SIRP α) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP α acts as inhibitory receptor and interacts with a broadly expressed transmembrane protein CD47 also called the "don't eat me" signal. Cancer cells highly expressed CD47 that activate SIRP α and inhibit macrophage-mediated destruction.

Purity: > 95% as determined by Tris-Bis PAGE > 95% as determined by SEC-HPLC

Endotoxin: Less than 1EU per μ g by the LAL method.

Source: HEK293

Accession: P78324-1

Predicted molecular mass: The protein has a predicted MW of 64.1 kDa. Due to glycosylation, the protein migrates to 78-90 kDa based on Tris-Bis PAGE result.

Formulation: Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. Dissolve the lyophilized protein in distilled water.

Storage: -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.

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

Service mail:support@huabio.cn

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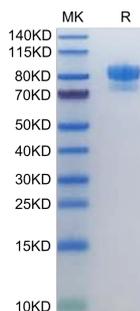


Fig1: Human SIRP alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

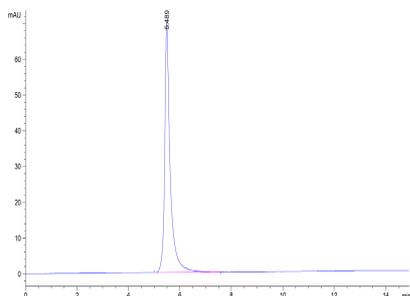


Fig2: The purity of SIRP alpha is greater than 95% as determined by SEC-HPLC.

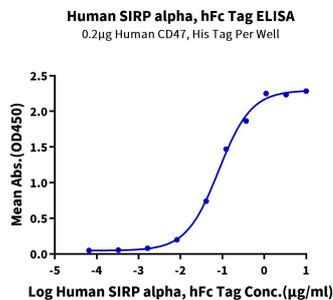


Fig3: Immobilized Human CD47, His Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 82.1ng/ml determined by ELISA (QC Test).

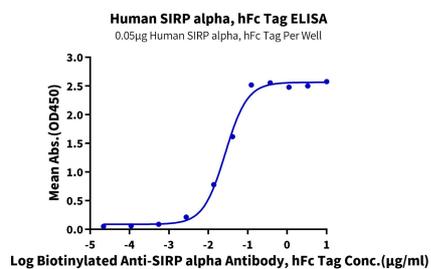


Fig4: Immobilized Human SIRP alpha, hFc Tag at 0.5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Anti-SIRP alpha Antibody, hFc Tag with the EC50 of 26.9ng/ml determined by ELISA.

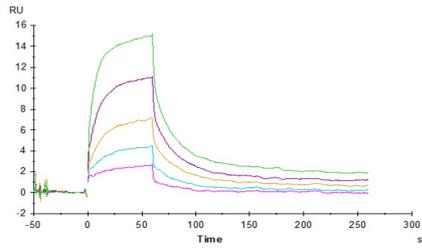


Fig5: Human CD47, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human SIRP alpha, hFc Tag with an affinity constant of 18.9nM as determined in SPR assay (Biacore T200).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation