Human SIRP alpha/CD172a Protein

Cat. No. SRP-HM272



Description	
Source	Recombinant Human SIRP alpha/CD172a Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Glu31-Arg370.
Accession	P78324-1
Molecular Weight	The protein has a predicted MW of 64.1 kDa. Due to glycosylation, the protein migrates to 78-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
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Formulation and Storage

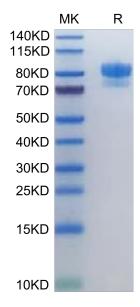
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE

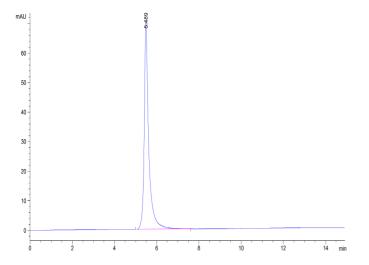


Human SIRP alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

Assay Data

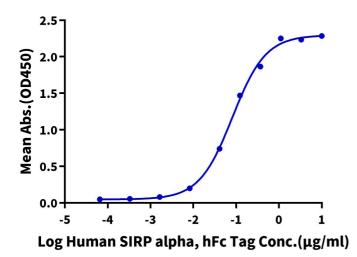


The purity of SIRP alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human SIRP alpha, hFc Tag ELISA

0.2μg Human CD47, His Tag Per Well

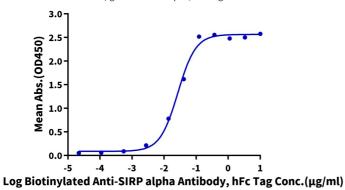


Immobilized Human CD47, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human SIRP alpha, hFc Tag with the EC50 of 82.1ng/ml determined by ELISA (QC Test).

ELISA Data

Human SIRP alpha, hFc Tag ELISA

0.05μg Human SIRP alpha, hFc Tag Per Well



Immobilized Human SIRP alpha, hFc Tag at 0.5µg/ml (100µl/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.

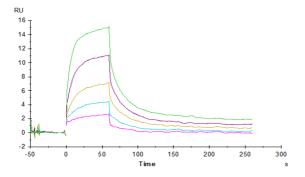
SPR Data

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Assay Data



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).