

SIRP alpha Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	Brain Ig-Like Molecule with Tyrosine-Based Activation Motifs;MyD-1 Antigen;Macrophage Fusion Receptor;Inhibitory Receptor SHPS-1;Bit;CD172 Antigen-Like Family Member A;SHPS-1;Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1;SHP Substrate 1
Protein Construction:	Glu31-Arg370
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P78324
Molecular Weight:	50-80 KDa (reducing condition)
AA Sequence:	Glu31-Arg370

QC Testing

Biological Activity:	Loaded Anti-Human SIRPA mAb-Fc on Protein A Biosensor, can bind Biotinylated Human SIRPA-His with an affinity constant of 5.57 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Signal Regulatory Protein α (SIRPα) is a monomeric approximately 90 kD type I transmembrane glycoprotein. The 504 amino acid human SIRPα contains two Ig-like C1-type domains and one Ig-like V-type domain. SIRPα can express in various tissues, mainly on brain and myeloid cells, including macrophages, neutrophils, dendritic and

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Langerhans cells. It also can detect in neurons, smooth muscle and endothelial cells. SIRPA is an immunoglobulin-like cell surface receptor for CD47. SIRP α acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRP α shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRP α engagement generally produces a negative regulatory signal; it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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