

SIRPalpha protein

Human SIRPalpha Protein, hFc-His Tag

CATALOG #
AAA268933

HOST
HEK293 cells

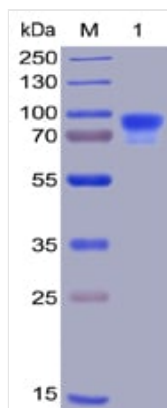
PRODUCT SYNONYMS

SIRPalpha; Human SIRPalpha Protein; hFc-His Tag; SHPS1; SIRPA; CD172A; BIT; MFR; MYD1; P84; PTPNS; SIRPalpha protein

PRODUCT SPECIFICATIONS

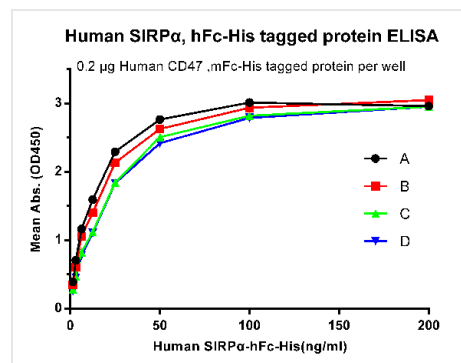
Host	HEK293 cells
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5 %-16 % trehalose is added as protectants before lyophilization.
Sequence Positions	SIRPalpha (Glu31-Arg370)+hFc (Glu99-Ala330)
Species	Human
Vector and Tag	C-Human Fc and 6xHis tag
Preparation and Storage	Store at -80 degree C for 12 months (Avoid repeated freezing and thawing)

IMAGES



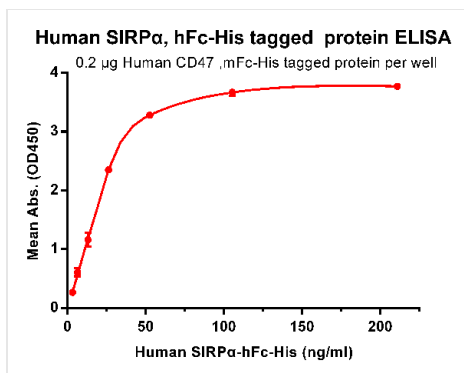
Application Data

Figure 3. A: Human SIRPalpha, hFc-His tagged protein without freeze-thaw treatment. B: Human SIRPalpha, hFc-His tagged protein after one freeze-thaw cycle. C: Human SIRPalpha, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPalpha, hFc-His tagged protein after five freeze-thaw cycles.



ELISA

Figure 2. ELISA plate pre-coated by 2ug/ml (100ul/well) Human CD47, mFc-His tagged protein can bind its native ligand Human SIRPalpha, hFc-His tagged protein (PME100009) in a linear range of 3.3-26.37ng/ml.



SDS-PAGE

Figure 1. Human SIRPalpha, hFc-His Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

Related Product Information for SIRPalphaprotein

Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA/CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA/SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function By similarity. SIRPA/MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.

NCBI AND UNIPROT INFORMATION

Molecular Weight

The protein has a predicted molecular mass of 70-98kDa after removal of the signal peptide.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-protein/sirpalphaprotein/268933>