

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HUMAN SIRPA PROTEIN, HFC-HIS TAG

货号: 11137

产品全名: 人 SIRPa 蛋白 规格: 10/50/100 µg

基因符号 SHPS1;SIRPA;CD172A;BIT;MFR;MYD1;P84;PTPNS

目标蛋白: SIRPa UNIPROT ID: P78324

描述: Recombinant Human SIRPa with C-terminal human Fc and 6xHis tag

背景: 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.

物种/宿主: HEK293

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

分子特征: SIRPa(Glu31-Tyr373) hFc(Glu99-Ala330) 6×His tag

纯化: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

储存和运输: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



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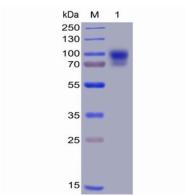


Figure 1. Human SIRPα, hFc-His Tag on SDS-PAGE under reducing condition.

Human SIRPα, hFc-His tagged protein ELISA

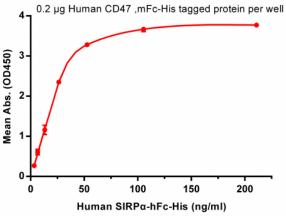


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD47, mFc-His tagged protein 11136 can bind its native ligand Human SIRPα, hFc-His tagged protein (11137) in a linear range of 3.3-26.37 ng/ml.

Human SIRPα, hFc-His tagged protein ELISA 0.2 μg Human CD47 ,mFc-His tagged protein per well A B C C D

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

100

Human SIRPα-hFc-His(ng/ml)

150

200

50

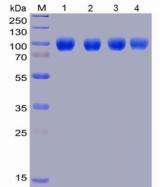


Figure 4. Lane 1: Human SIRPα, hFc-His tagged protein without freeze-thaw treatment, Lane 2: Human SIRPα, hFc-His tagged protein after one freeze-thaw cycle, Lane 3: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles, Lane 4: Human SIRPα, hFc-His tagged protein after five freeze-thaw cycles.