

Recombinant Human SIRPA Protein (His Tag)

Catalog Number: PDEH100822

Note: Centrifuge before opening to ensure complete recovery of vial contents.

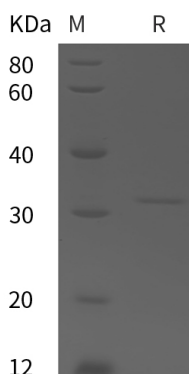
Description

Species	Human
Source	E.coli-derived Human SIRPA protein Ser105-Arg324, with an N-terminal His
Calculated MW	24.1 kDa
Observed MW	32 kDa
Accession	P78324
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human SIRPA proteins, 2 µg/lane of Recombinant Human SIRPA proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 32 kDa.

Background

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

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