

Recombinant Mouse SIRP- α /CD172a Protein

Catalog No.: RP01619

Sequence Information

Species	Gene ID
Mouse	19261
Swiss Prot	Tags
P97797	C-hFc

Synonyms

CD172a; BIT; MFR; MYD1; MYD-1; P84; PTPNS1; SHP substrate 1; SHPS1; SHPS-1; SHPS1CD172A; SIRP α ; SIRPA; Sirp- α -1; SIRPalph2; Sirp- α -2; Sirp- α -3; SIRPA

Product Information

Source	Purification
HEK293 cells	$\geq 95\%$ as determined by SDS-PAGE.

Calculated MW	Observed MW
63.86 kDa	90-120 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

Basic Information

Description

Recombinant Mouse SIRP- α /CD172a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys32-Asn373) of mouse SIRP- α /CD172a (Accession #NP_001277948.1) fused with a hFc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD47 (Catalog: RP01306) at 2 μ g/mL (100 μ L/well) can bind Mouse CD172a (Catalog: RP01619) with a linear range of 1.2-55.3 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

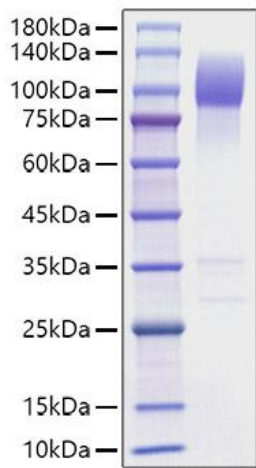
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

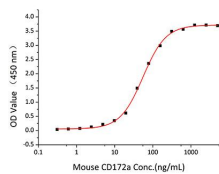
Contact

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Validation Data



Recombinant Mouse SIRP- α /CD172a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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