CREATIVE BIOMART®
Immune Checkpoints

Recombinant Human SIRPA Protein (Glu31-Asn371), C-hFc and Avi-tagged, Biotinylated

Product Information

Cat	*IMP-10078*
Official Symbol	*SIRPA*
Product Overview	*Biotinylated recombinant human SIRP alpha/CD172a protein (Glu31-Asn371) with a Human IgG1 (Pro100-Lys330) Fc tag and Avi-tag at C-terminus was expressed in Chinese Hamster Ovary cell line.*
Description	*The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene.*
Expression System	*CHO*
Species	*Human*
Tag	*C-hFc and Avi*
Predicted N Terminal	*Glu31*
Form	*Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.*
Conjugate	*Biotinylated*
Molecular Mass	*Predicted Molecular Mass: 66 kDa SDS-PAGE: 86-96 kDa, under reducing conditions*
Protein length	*Glu31-Asn371*
Bio-activity	*The biotin to protein ratio is greater than 0.7 as determined by the HABA assay. Measured by its binding ability in a functional ELISA. When Recombinant Human CD47 Fc Chimera is immobilized at 0.2 μg/mL (100 μL/well), Biotinylated Recombinant Human SIRP alpha/CD172a Fc Chimera Avi-tag binds with an ED50 of 20-180 ng/mL.*

45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-559-9269 1-516-512-3133 E-mail: info@creative-biomart.com

Endotoxin

Purity

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.

Notes

Disulfide-linked homodimer, biotinylated via Avi-tag

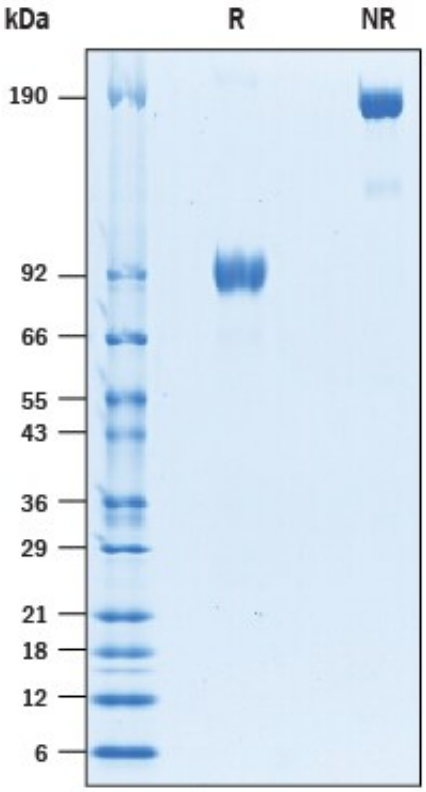
Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

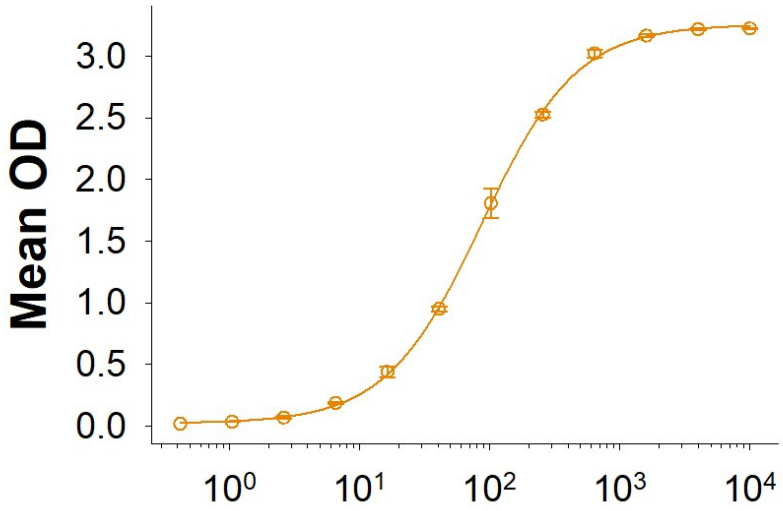
Reconstitute at 500 µg/mL in PBS.

SDS-PAGE



Bioactivity-ELISA 1

45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-559-9269 1-516-512-3133 E-mail: info@creative-biomart.com



Biotinylated Recombinant Human SIRPα/CD172a Fc Chimera Avi-tag (ng/mL)

The biotin to protein ratio is greater than 0.7 as determined by the HABA assay. Measured by its binding ability in a functional ELISA. When Recombinant Human CD47 Fc Chimera is immobilized at 0.2 μg/mL (100 μL/well), Biotinylated Recombinant Human SIRP alpha/CD172a Fc Chimera Avi-tag binds with an ED50 of 20-180 ng/mL.

45-1 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-559-9269 1-516-512-3133 E-mail: info@creative-biomart.com