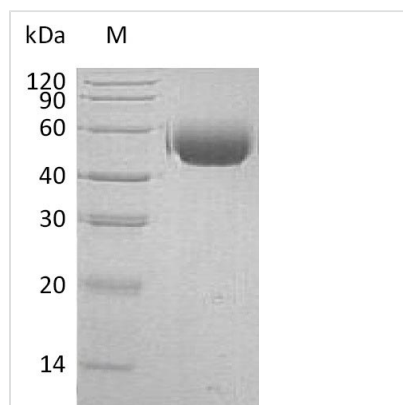




Recombinant Human Tyrosine-protein phosphatase non-receptor type substrate 1 (SIRPA), partial (Active)

Product Code	CSB-AP005271HU
Abbreviation	Recombinant Human SIRPA protein, partial (Active)
Uniprot No.	CAA71403.1
Storage Buffer	Lyophilized from a 0.2 µm filtered 1xPBS, pH 7.4.
Product Type	Immune Checkpoint
Immunogen Species	Homo sapiens (Human)
Sensitivity	Loaded Anti-Human SIRPA mAb-Fc on Protein A Biosensor, can bind Human SIRPA-His with an affinity constant of 10.1 nM as determined in BLI assay.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	EEELQVIQPDKSVSVAAGESAILHCTVTSLIPVGPIQWFRGAGPARELIYNQKE GHFPRVTTVSESTKRENMDFSISISNITPADAGTYCYVKFRKGSPTDFKSGAG TELSVRAKPSAPVVSGPAARATPQHTVSFTCESHGFSPRDLTKWFKNGNELS DFQTNVDPVGESVSYSIHSTAKVVLTRDVDHSQVICEVAHVTLQGDPLRGTAN LSETIRVPPTLEVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTE ASTVTENKDGTYNWMSWLLVNVSAHRDDVKLTCQVEHDGQPAVSKSHDLKV SAHPKEQGSNTAAENTGSNERN
Research Area	Cardiovascular
Source	Mammalian cell
Target Names	SIRPA
Expression Region	31-370aa
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	38.31 kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

To synthesize the recombinant human tyrosine-protein phosphatase non-receptor type substrate 1 (SIRPA) in mammalian cells, the gene region encoding amino acids 31-370 of the human SIRPA protein is inserted into an expression vector carrying a C-terminal 6xHis-tag. The recombinant expression vector is then transfected into mammalian cells using suitable techniques. The transfected cells are cultured, allowing for the expression of the recombinant SIRPA protein. Post-expression, the cells are harvested, and the recombinant SIRPA protein is purified the cell lysate. The purity of the recombinant SIRPA protein is confirmed to be over 95% using SDS-PAGE analysis. The activity of the recombinant SIRPA protein is assessed by its ability to bind human CD47 in functional ELISA, with an ED50 of less than 0.5 µg/ml. Additionally, the endotoxin level of the protein is determined to be less than 1.0 EU/µg using the LAL method.

Typical

Less than 1.0 EU/µg as determined by LAL method.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.