

32-8826: Recombinant Human Signal-Regulatory Protein α -1/SIRPA/CD172a (C-Fc)

Gene : SIRPA
Gene ID : 140885
Uniprot ID : P78324

Description

Source: Human cells.
MW :64.1kD.

Recombinant Human Signal-Regulatory Protein α 1 is produced by our Mammalian expression system and the target gene encoding Glu31-Arg370 is expressed with a Fc tag at the C-terminus. Signal Regulatory Protein α (SIRPa) is a monomeric approximately 90 kD type I transmembrane glycoprotein. The 504 amino acid human SIRPa contains two Ig-like C1-type domains and one Ig-like V-type domain. SIRPa 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. SIRPa is an immunoglobulin-like cell surface receptor for CD47. SIRPa acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPa shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRPa engagement generally produces a negative regulatory signal; it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation

Product Info

Amount : 10 μ g / 50 μ g
Content : Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : EEELQVIQPDKSVSVAAGESAILHCTVTSIPVGPQWFRGAGPARELIYNQKEGHFPRVTTVSEST
KRENMDFSISISNITPADAGTYCYVKFRKGSPDTEFKSGAGTELSVRAKPSAPVVSGPAARATPQH
TVSFTCESHGFSRPDITLKWFKNGNELSDFQTNVDPVGESVSYSIHSTAKVVLTREDVHSQVICEV
AHVTLQGDPLRGATANLSETIRVPPTLEVTTQPPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSR
TETASTVTENKDGTYNWMWSLLVNVSAHRDDVKLTQVEHDGQPAVSKSHDLKVSAPHPKEQGSN
TAAENTGSNERDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV
VDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA
LPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
TPPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

Application Note

Endotoxin : Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test.