

## 32-8826: Recombinant Human Signal-Regulatory Protein $\alpha$ -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  $\alpha$  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  $\alpha$  (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  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ 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 :** EEELQVIQPDKSVSVAAGESAILHCTVTSVIPVGPIQWFRGAGPARELIYNQKEGHFPRVTTVSESTKRENMDFSI  
SISNITPADAGTYICVFKRKGSPDTEFKSGAGTELSVRAKPSAPVVS GPAARATPQHTVSFTCESHGFSRDLTL  
KWFKNNGNELSDFQTNVDPVGESVSYSIHSTAKVVLTRDVDHSQVCEVAHVTLQGDPLRGTTANLSETIRVPPTL  
EVTQQPVRAENQVNVTCQVRKFYPQRLQLTWLENGNVSRTETASTVTENKDGTYNWMSWLLVNVSAHRDD  
VKLTCCQVEHDGQPAVSKSHDLKVSAPKPEQGSNTAAENTGSNERDIEGRMDPEKSCDKTHTCPPCPAPELLG  
GPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH  
QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESN  
GQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.