Recombinant rat SIRP alpha/CD172a protein

Catalog Number: ATGP3253

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
32-373aa

UniProt No.
P97710

NCBI Accession No.
NP_037148

Alternative Names
Bit, Ptpns1, SHPS-1, Sirpa

PRODUCT SPECIFICATION

Molecular Weight
38.5 kDa (350aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
SIRPA, also known as tyrosine-protein phosphatase non-receptor type substrate 1, is an immunoglobulin-like cell surface receptor for CD47. It supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. It may play a key role in intracellular signaling during synaptogenesis and in synaptic function. It is involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell

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adhesion, growth factors or insulin. Recombinant rat SIRPA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

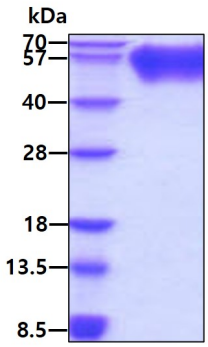
KELKVTQADK SVSVAAGDSA TLNCTVSSLT PVGPIKWFKG EGQNRSPIYS FIGGEHFPRI TNVSDATKRN NMDFSICISN VTPEDAGTYY CVKFQKGIVE PDTEIKSGGG TTLYVLAKPS SPEVSGPDSR GSPGQTVNFT CKSYGFSPRN ITLKWLKNGK ELSHLETTIS SKSNVSYNIS STVSVKLSPE DIHSRVICEV AHVTLEGRPL NGTANFSNII RVSPTLKITQ QPLTPASQVN LTCQVQKFYP KALQLNWLEN GNLSRTDKPE HFTDNRDGTY NYTSLFLVNS SAHREDVVFT CQVEHDSQPA ITENHTVRAF AHSSSGGSME TIPDNNAYYN WN<VEHHHHHH>

General References

Fujioka Y., et al. (1996) Mol Cell Biol. 16:6887-6899.
Sano S., et al. (1997) FEBS Lett. 411:327-334.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.