

Recombinant human SIRP beta 1/CD172b protein

Catalog Number: ATGP3805

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

30-371aa

UniProt No.

O00241

NCBI Accession No.

NP_006056

Alternative Names

Signal-regulatory protein beta-1 isoform 1, SIRPB1, CD172b, SIRP-BETA-1

PRODUCT SPECIFICATION

Molecular Weight

38kDa (348aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 90% 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

SIRPB1, also known as signal-regulatory protein beta-1 isoform 1, is a type I transmembrane protein of SIRP superfamily. It is an immunoglobulin-like cell surface receptor involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein also participates in the recruitment of tyrosine kinase SYK. And it acts as an activating isoform of SIRP alpha molecules that recruit SHP-1 and SHP-2 protein tyrosine

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phosphatases and activate counterparts, whose engagement couples to protein tyrosine kinases. Recombinant human SIRPB1 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

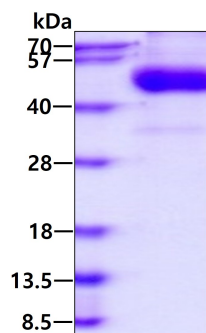
EDELQVIQPE KSVSVAAGES ATLRCAMTSL IPVGPIMWFR GAGAGRELIY NQKEGHFPRV TTVSELTKRN NLDFSISISN
ITPADAGTY Y CVKFRKGS PD DVEFKSGAGT ELSVRAKPSA PVVSGPAVRA TPEHTVSFTC ESHGFSPRDI TLKWFKNGNE
LSD FQTNVDP AGDSVSY SIH STARVVLTRG DVHSQVICEI AHITLQGDPL RGTANLSEAI RVPPTLEV TQ QPMRAENQAN
VTCQVSNFYP RGLQLTWLEN GNVSR TETAS TLIENKDGTY NWMSWLLVNT CAHRDDV VLT CQVEHDGQQA VSKSYALEIS
AHQKEHGSDI THEAALAPTA PL<HHHHHH>

General References

Liu Y., et al, (2005) J Biol Chem. 280:36132-36140.
Gaikwad S., et al, (2009) Am J Pathol. 175:2528-2539.

DATA

SDS-PAGE



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