

Recombinant human SH2D1A protein

Catalog Number: ATGP0783

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-128aa

UniProt No.

O60880

NCBI Accession No.

NP_002342

Alternative Names

SH2 domain-containing protein 1A, DSHP, EBVS, IMD5, LYP, MTCP1, SAP, XLP, XLPD

PRODUCT SPECIFICATION

Molecular Weight

16.3 kDa (148aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 95% by SDS-PAGE

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

SH2D1A is an inhibitor of the signaling lymphocyte activation molecule (SLAM) self-association. This protein is expressed at a high level in thymus and lung, with a lower level of expression in spleen and liver. Defects in SH2D1A are a cause of X-linked lymphoproliferative disease (XLPD) also known as Duncan disease. XLPD is characterized by a rare congenital immunodeficiency following Epstein-Barr virus (EBV) infection. Recombinant human SH2D1A protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MDAVAVYHGK ISRETGEKLL LATGLDGSYL LRDSESVPGV YCLCVLYHGY
IYTYRVSQTE TGSWSAETAP GVHKRYFRKI KNLISAFQKP DQGIVIPLOY PVEKKSSARS TQGTGIREDD PDVCLKAP

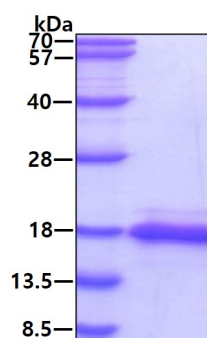
General References

Schwartzberg PL., et al. (2010) Immunity. 32(2):253-65.

Lenardo MJ., et al (2009) J Clin Invest. 119(10):2976-89

DATA

SDS-PAGE



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