

# Recombinant Human SH2D1A/SAP Protein (His Tag)

Catalog Number:PKSH031236



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

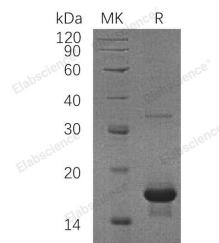
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | SH2 Domain-Containing Protein 1A;Duncan Disease SH2-Protein;Signaling Lymphocytic Activation Molecule-Associated Protein;SLAM-Associated Protein;T-Cell Signal Transduction Molecule SAP;SH2D1A;DSHP;EBVS;IMD5;LYP;MTCP1;SAP/SAP;SH2D1A;XLP;XLPD;XLPD1 |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Pro 2-Lys 97   |
| <b>Accession</b>                   | NP_002342.1  |
| <b>Calculated Molecular Weight</b> | 15.6 kDa   |
| <b>Observed molecular weight</b>   | 14 kDa   |
| <b>Tag</b>                         | N-His  |
| <b>Bioactivity</b>                 | Measured by its ability to bind recombinant human SLAMF1, human SLAMF6, mouse SLAMF6, mouse CD84 in functional ELISA.  |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 94 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | Please contact us for more information.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.    |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.5, 20% glycerol<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

## Data



> 94 % as determined by reducing SDS-PAGE.

## Background

SH2 domain-containing protein 1A (SH2D1A / SAP) is a 128 amino acid protein, containing a single Src homology 2 (SH2) domain, flanked by 5 amino acids at the N-terminus and 25 amino acids at the C-terminus. The absence of a catalytic domain and the presence of an SH2 domain suggest that SH2D1A regulates one or more signal transduction

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pathways. SH2D1A interacts with signaling lymphocytic activation molecule (SLAM), which is a transmembrane protein expressed on the surface of activated T and B cells. SH2D1A (SAP) interacts via its SH2 domain with a motif (TIYXXV) present in the cytoplasmic tail of the cell-surface receptors, including CD150 / SLAM, CD84, CD229 / Ly-9, and CD244 / 2B4. SH2D1A was expressed in EBV-carrying, tumor phenotype representative (type I), but not in EBV-carrying lymphoblastoid cell line (LCL)-like (type III) or EBV-negative Burkitt lymphoma (BL) lines. It has been supposed to be related to the X-linked lymphoproliferative disease which is also known as Duncan's disease or Purtilo syndrome.

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