

Recombinant Human SH2 Domain Containing 1A, His-tagged

Cat. No. SH2D1A-4591H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SH2D1A Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 148 amino acids (1-128 a.a.) and having a molecular mass of 16.3kDa. The SH2D1A is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	1-128 a.a.
Description	SH2D1A acts as an inhibitor of the signaling lymphocyte activation molecule (SLAM) self-association. The SH2D1A protein is expressed at a high level in the thymus and the lung, with a lower level of expression in the spleen and the liver. The SH2D1A protein contains an SH2 domain and a short tail. SH2D1A has a key role in the bidirectional stimulation of T and B cells. Defects in the SH2D1A gene cause the X-linked lymphoproliferative disease (XLPD), aka Duncan disease. The XLPD is distinguished by a rare congenital immunodeficiency following an EBV infection (Epstein-Barr virus).
Form	The SH2D1A solution (1 mg/ml) contains 20mM Tris-HCl Buffer (pH 7.5), 1mM DTT and 10% Glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.

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Physical Appearance	Sterile Filtered colorless solution.
Amino acid sequence	MGSSHHHHHH SSGLVPRGSH MDAVAVYHGK ISRETGEKLL LATGLDGSYL LRDSESVPGV YCLCVLYHGY IYTYRVSQTE TGSWSAETAP GVHKRYFRKI KNLISAFQKP DQGIVIPLOQY PVEKKSSARS TQGTGIREDD PDVCLKAP.
Storage	SH2D1A should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	SH2D1A SH2 domain containing 1A [Homo sapiens]
Official Symbol	SH2D1A
Synonyms	SH2D1A; LYP; SAP; XLP; DSHP; EBVS; IMD5; XLPD; MTCP1; FLJ18687; FLJ92177; SAP/SH2D1A; SH2 domain-containing protein 1A; OTTHUMP00000023976; OTTHUMP00000226563; SLAM-associated protein; Duncan disease SH2-protein; T cell signal transduction molecule SAP; SLAM associated protein/SH2 domain protein 1A; signaling lymphocyte activation molecule-associated protein; signaling lymphocytic activation molecule-associated protein
Gene ID	4068
mRNA Refseq	NM_001114937
Protein Refseq	NP_001108409
MIM	300490

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UniProt ID	O60880
Chromosome Location	Xq25
Pathway	Direct p53 effectors; Measles; Natural killer cell mediated cytotoxicity
Function	SH3/SH2 adaptor activity
PDB rendering based on 1d1z.	