OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AR09722PU-L

SH2D1A (1-128, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	SH2D1A (1-128, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MDAVAVYHGK ISRETGEKLL LATGLDGSYL LRDSESVPGV YCLCVLYHGY IYTYRVSQTE TGSWSAETAP GVHKRYFRKI KNLISAFQKP DQGIVIPLQY PVEKKSSARS TQGTTGIRED PDVCLKAP
Tag:	His-tag
Predicted MW:	16.3 kDa
Concentration:	lot specific
Purity:	>95%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate-Buffered Saline (pH 7.4)
Preparation:	Liquid purified protein
Protein Description:	Recombinant human SH2D1A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001108409
Locus ID:	4068
UniProt ID:	O60880
Cytogenetics:	Xq25
Synonyms:	DSHP, SAP, SH2 domain-containing protein 1A, SLAM-associated protein, T-cell signal transduction molecule SAP, Duncan disease SH2-protein

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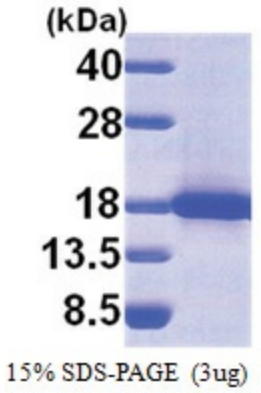
Summary: This gene encodes a protein that plays a major role in the bidirectional stimulation of T and B cells. This protein contains an SH2 domain and a short tail. It associates with the signaling lymphocyte-activation molecule, thereby acting as an inhibitor of this transmembrane protein by blocking the recruitment of the SH2-domain-containing signal-transduction molecule SHP-2 to its docking site. This protein can also bind to other related surface molecules that are expressed on activated T, B and NK cells, thereby modifying signal transduction pathways in these cells. Mutations in this gene cause lymphoproliferative syndrome X-linked type 1 or Duncan disease, a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus, with symptoms including severe mononucleosis and malignant lymphoma. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Natural killer cell mediated cytotoxicity

Product images:



15% SDS-PAGE (3ug)