Signaling Lymphocytic Activation Molecule (SLAMF1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Signaling lymphocytic activation molecule (SLAMF1), Recombinant Protein
Full Product Name	Recombinant Human Signaling lymphocytic activation molecule (SLAMF1), partial
Product Gene Name	SLAMF1 recombinant protein
Product Synonym Gene Name	SLAMF1
Sequence	ASYGTGGRMM NCPKILRQLG SKVLLPLTYE RINKSMNKSI HIVVTMAKSL ENSVENKIVS LDPSEAGPPR YLGDRYKFYL ENLTLGIRES RKEDEGWYLM TLEKNVSVQR FCLQLRLYEQ VSTPEIKVLN KTQENGTCTL ILGCTVEKGD HVAYSWSEKA GTHPLNPANS SHLLSLTLGP QHADNIYICT VSNPISNNSQ TFSPWPGCRT DPSETKP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	40,292 Da
Sequence Positions	21-237
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	603492
3D Structure	ModBase 3D Structure for Q13291
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SLAMF1 recombinant protein	MBS1343320 is a recombinant protein targeting SLAMF1. Also known as Recombinant Human Signaling lymphocytic activation molecule (SLAMF1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SLAMF1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLAMF1. It may not necessarily be applicable to this product.

NCBI GI #	1061899727
NCBI GeneID	6504
NCBI Accession #	NP_001317683.1
UniProt Primary Accession #	Q13291

UniProt Secondary Accession #	Q5W172; Q9HBE8; W0HKK7
UniProt Related Accession #	Q13291
GenBank Nucleotide #	NM_001330754.1
NCBI Official Full Name	signaling lymphocytic activation molecule isoform a
NCBI Official Synonym Full Names	signaling lymphocytic activation molecule family member 1
NCBI Official Symbol	SLAMF1
NCBI Official Synonym Symbols	SLAM; CD150; CDw150
UniProt Protein Name	Signaling lymphocytic activation molecule
UniProt Synonym Protein Names	CDw150; IPO-3; SLAM family member 1; CD_antigen: CD150
Protein Family	Signaling lymphocytic activation molecule
UniProt Gene Name	SLAMF1
UniProt Synonym Gene Names	SLAM
NCBI Protein Information	signaling lymphocytic activation molecule
UniProt Comments for SLAMF1	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. SLAMF1-induced signal-transduction events in T-lymphocytes are different from those in B-cells. Two modes of SLAMF1 signaling seem to exist: one depending on SH2D1A (and perhaps SH2D1B) and another in which protein-tyrosine phosphatase 2C (PTPN11)-dependent signal transduction operates. Initially it has been proposed that association with SH2D1A prevents binding to inhibitory effectors including INPP5D/SHIP1 and PTPN11/SHP-2 (PubMed:11806999). However, signaling is also regulated by SH2D1A which can simultaneously interact with and recruit FYN which subsequently phosphorylates and activates SLAMF1 (PubMed:12458214). Mediates IL-2-independent proliferation of activated T-cells during immune responses and induces IFN-gamma production (). Downstreaming signaling involves INPP5D, DOK1 and DOK2 leading to inhibited IFN-gamma production in T-cells, and PRKCQ, BCL10 and NFKB1 leading to increased T-cell activation and Th2 cytokine production (). Promotes T-cell receptor-induced IL-4 secretion by CD4+ cells (). Inhibits antigen receptor-mediated production of IFN-gamma, but not IL-2, in CD4-/CD8- T-cells (). Required for IL-4 production by germinal centers T follicular helper (T(Fh))cells (). May inhibit CD40-induced signal transduction in monocyte-derived dendritic cells (PubMed:16317102). May play a role in a allergic responses and may regulate allergen-induced Th2 cytokine and Th1 cytokine secretion (). In conjunction with SLAMF6 controls the transition between positive selection and the subsequent expansion and differentiation of the thymocytic natural killer T (NKT) cell lineage. Involved in the peripheral differentiation of indifferent natural killer T (iNKT) cells toward a regulatory NKT2 type (). In macrophages involved in down-regulation of IL-12, TNF-alpha and nitric oxide in response to lipopolysaccharide (LPS) (). In B-cells activates the ERK signaling pathway independently of SH2D1A but implicating both, SYK and INPP5D, and activates Akt signaling dependent on SYK and SH2D1A (). In B-cells also activates p38 MAPK and JNK1 and JNK2 (PubMed:20231852). In conjunction with CD84/SLAMF5 and SLAMF6 may be a negative regulator of the humoral immune response (). Involved in innate immune response against Gram-negative bacteria in macrophages; probably recognizes OmpC and/or OmpF on the bacterial surface, regulates phagosome maturation and recruitment of the PI3K complex II (PI3KC3-C2) leading to accumulation of PdtIns3P and NOX2 activity in the phagosomes (PubMed:20818396).
Research Articles on SLAMF1	**1.** CD150 and CD180 receptors may modulate transcriptional program in lymphocytic leukemia cells by regulating the transcription factor expression levels
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