

Active Recombinant Mouse SLAM Family Member 7, His-tagged

Cat. No. Slamf7-4018M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mouse SLAMF7 (NP_653122.2) extracellular domain (Met 1 - Gly 224) was fused with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	Mouse
ProteinLength	1-224 a.a.
Description	Mouse SLAM family member 7, also known as CRACC, SLAMF7, CD319, CD2-like receptor-activating cytotoxic cells, and CS1, is a single-pass type I membrane protein and a member of the CD2 family of cell surface receptors. SLAMF7 is expressed in NK cells, activated B-cells, NK-cell line but not in promyelocytic, B- cell lines, or T-cell lines. The cytoplasmic domain of SLAMF7 contains immunoreceptor tyrosine-based switch motifs (ITSM), which enables to recuite signaling lymphocyte activation molecule (SLAM)-associated protein (SAP/ SH2D1A). SLAMF7 may play a role in the regulation of B lymphocyte proliferation during immune responses. SLAMF7 is implicated in the activation of NK cell-mediated cytotoxicity. SLAMF7 positively regulated natural killer cell functions by a mechanism dependent on the adaptor EAT-2 but not the related adaptor SAP. In the absence of EAT-2, SLAMF7 potently inhibited natural killer cell function.
Form	Lyophilized from sterile PBS, pH7.4. Normally 5 % - 8 % trehalose and mannitol are

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	added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Purity	> 95 % as determined by SDS-PAGE.
Bio-activity	Measured by its ability to bind biotinylated mouse SLAMF7 in a functional ELISA
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Stability	Samples are stable for up to twelve months from date of receipt at -70µ
Predicted N terminal	Ser 23
Molecular Mass	The recombinant mouse SLAMF7 consists of 213 amino acids with the predicted molecular mass of 23.7 kDa. As a result of glycosylation, the apparent molecular mass of rm SLAMF7 is approximately 35-50 kDa in SDS-PAGE under reducing conditions.
Storage	Store it under sterile conditions at -70µ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	Slamf7 SLAM family member 7 [Mus musculus]
Official Symbol	Slamf7
Synonyms	Slamf7; SLAM family member 7; 19A; CS1; 19A24; CRACC; 4930560D03Rik; novel Ly9; leukocyte cell-surface antigen
Gene ID	75345

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mRNA Refseq	NM_144539
Protein Refseq	NP_653122
UniProt ID	Q8BHK6
Chromosome Location	1 E2
Function	protein binding; receptor activity

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