

SLAMF6 Protein, Human, Recombinant (His)

General Information

Synonyms:	SLAM family member 6;CD352;KALI;SF2000;NTB-A;Ly108;NTBA;KALiB
Protein Construction:	A DNA sequence encoding the human SLAMF6 (Q96DU3-1) extracellular domain (Met 1-Met 226) was expressed, with a polyhistidine tag at the C-terminus. Predicted N terminal: Gln 22
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96DU3-1
Molecular Weight:	24.3 kDa (predicted); 38-40 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Measured by its ability to bind biotinylated recombinant human SH2D1A in a functional ELISA.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

SLAM family member 6, also known as Activating NK receptor, NK-T-B-antigen, NTB-A, SLAMF6, KALI and Ly18, is a single-pass type I membrane protein that belongs to the CD2 subfamily of the immunoglobulin superfamily. SLAMF6 / Ly18 contains one Ig-like (immunoglobulin-like) domain. It is expressed by all (resting and activated) natural killer cells (NK), T- and B-lymphocytes. SLAMF6 / Ly18 triggers cytolytic activity only in natural killer cells (NK) expressing high surface densities of natural cytotoxicity receptors. SLAMF6 / Ly18 is a homodimer. It interacts

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with PTN6 and, upon phosphorylation, with PTN11 and SH2D1A/SAP. SLAMF6 / Ly18 undergoes tyrosine phosphorylation and associates with the Src homology 2 domain-containing protein (SH2D1A) as well as with SH2 domain-containing phosphatases (SHPs). It may function as a coreceptor in the process of NK cell activation. SLAMF6 / Ly18 can also mediate inhibitory signals in NK cells from X-linked lymphoproliferative patients.

Reference

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Bottino C. et al., 2001, J Exp Med. 194 (3): 235-46.

Valdez PA. et al., 2004, J Biol Chem. 279 (18): 18662-9.

Claus M. et al., 2007, Front Biosci. 13: 956-65.

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