



**LD Biopharma, Inc.**  
9924 Mesa Rim Road, Suite B  
San Diego, CA 92121  
Tel: 858-876-8266  
<http://www.ldbiopharma.com>

## - PRODUCT DATA SHEET -

**Name of Product:** Recombinant Human CD352 Protein  
**Catalog Number:** hRP-1821  
**Manufacturer:** LD Biopharma, Inc.

### Introduction

Human SLAM family member 6 (SLAMF6, also named as CD352) gene encodes a member of the CD2 family of cell surface proteins involved in lymphocyte activation. CD352 protein is expressed on (activated or resting) Natural killer (NK), T, and B lymphocytes. It undergoes tyrosine phosphorylation and associates with the Src homology 2 domain-containing protein (SH2D1A) as well as with SH2 domain-containing phosphatases (SHPs). It functions as a co-receptor in the process of NK cell activation. It can also mediate inhibitory signals in NK cells from X-linked lymphoproliferative patients.

Extracellular domain of human CD352 cDNA ( 22 – 226aa, Isoform-I ) was constructed with codon optimization using gene synthesis technology and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. This protein was expressed in E. coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

**Gene Symbol:** CD352 (SLAMF6; KALI; KAL1b; Ly108; NTB-A; SF2000)  
**Accession Number:** NP\_001171643  
**Species:** Human  
**Size:** 50 µg / Vial  
**Composition:** 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.  
**Storage:** In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

### Key References

Bolduan S, et al., *HIV-1 Vpu affects the anterograde transport and the glycosylation pattern of NTB-A*. Virology 440 (2), 190-203 (2013)



**LD Biopharma, Inc.**  
9924 Mesa Rim Road, Suite B  
San Diego, CA 92121  
Tel: 858-876-8266  
<http://www.ldbiopharma.com>

Chatterjee M, et al., *CD3-T cell receptor co-stimulation through SLAMF3 and SLAMF6 receptors enhances RORgammat recruitment to the IL17A promoter in human T lymphocytes*. J. Biol. Chem. 287 (45), 38168-38177 (2012)

Chatterjee M, et al., *Increased expression of SLAM receptors SLAMF3 and SLAMF6 in systemic lupus erythematosus T lymphocytes promotes Th17 Differentiation*. J. Immunol. 188 (3), 1206-1212 (2012)

Chatterjee M, et al., *SLAMF6-driven co-stimulation of human peripheral T cells is defective in SLE T cells*. Autoimmunity 44 (3), 211-218 (2011)

## Applications

1. May be used for in vitro CD352 mediated T cell activities regulation study in IL17A pathway with this protein either as soluble factor or as coating matrix protein.
2. May be used for protein-protein interaction mapping.
3. Potential biomarker protein for monitoring T cell activity various auto-immuno-diseases.
4. As immunogen for specific antibody production.

## Quality Control

Purity: > 90% by SDS-PAGE.

## Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHENLYFQGGEFQSSLTPLMVNGILGESVTLPLEFPAGEKVNFIITWL  
FNETSLAFIVPHETKSPEIHVTNPKQGKRLNFTQSYSLQLSNLKMEDTGSYRAQISTKTSAKLS  
SYTLRILRQLRNIQVTNHSQLFQNMTCELHLTCSVEDADDNVSFRWEALGNTLSSQPNLTVSWD  
PRISSEQDYTCIAENAVSNLSFSVSAQKLCEDVKIQYTDTKM