

# Recombinant Human SLAMF5/CD84 Protein

Catalog No.: RP02164 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 8832    | Q9UIB8     |

### Tags

C-His

### Synonyms

CD84; LY9B; SLAMF5; hCD84; mCD84;  
CD84  
molecule;LY9B;SLAMF5;hCD84;mCD84

## Product Information

| Source       | Purification       |
|--------------|--------------------|
| HEK293 cells | > 95% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 23.09 kDa     | 40-50 kDa   |

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

SLAM family member 5 (SLAMF5/CD84) is a type I transmembrane protein in the SLAM subgroup of the CD2 family. SLAM family proteins regulate multiple aspects of immune system function. Mature human CD84 consists of a 204 amino acid (aa) extracellular domain (ECD) with two Ig-like domains, a 21 aa transmembrane segment, and a 99 aa cytoplasmic domain with two immunoreceptor tyrosine-based switch motifs (ITSMs). CD84 exhibits homophilic binding which is mediated by the N-terminal Ig-like domain. Ligation induces tyrosine phosphorylation in the cytoplasmic ITSMs which then recruit the signaling adaptor molecules SAP (SLAM-associated protein) and EAT-2 (EWS/Fli1-activated transcript 2). CD84 signaling inhibits Fc epsilon RI-induced mast cell activation but enhances platelet activation. LPS-induced macrophage activation, T cell proliferation and IFN-γ production, and the interactions between T cells and B cells that are required for germinal center formation.

## Basic Information

### Description

Recombinant Human SLAMF5/CD84 Protein is produced by Mammalian expression system. The target protein is expressed with sequence (Lys22-Arg220) of human SLAMF5 (Accession #Q9UIB8) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

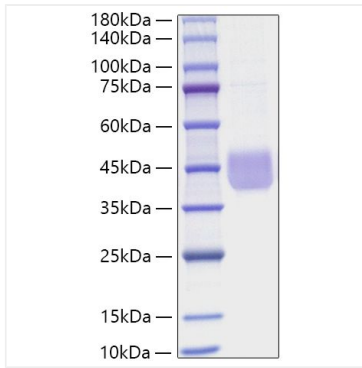
Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human SLAMF5/CD84 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-50 kDa.