

# Recombinant Mouse SLAMF5/CD84 Protein (His Tag)



Catalog Number:PKSM041204

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

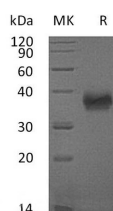
## Description

|                                    |                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                    | SLAM family member 5;Cd84;Leukocyte differentiation antigen CD84;Signaling lymphocytic activation molecule 5;CD84;Ly-9B;SLAMF5;CD84 antigen;CD84 molecule;SLAM family member 5 |
| <b>Species</b>                     | Mouse                                                                                                                                                                          |
| <b>Expression Host</b>             | HEK293 Cells                                                                                                                                                                   |
| <b>Sequence</b>                    | Lys22-Pro223                                                                                                                                                                   |
| <b>Accession</b>                   | AAD02273.1                                                                                                                                                                     |
| <b>Calculated Molecular Weight</b> | 23.8 kDa                                                                                                                                                                       |
| <b>Observed molecular weight</b>   | 35-40 kDa                                                                                                                                                                      |
| <b>Tag</b>                         | C-His                                                                                                                                                                          |

## Properties

|                       |                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                        |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.             |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                                      |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

CD84, also called SLAMF5, is a member of the CD2 subgroup of the immunoglobulin receptor superfamily. Members of this CD2 subgroup mediate signal transduction through the interaction of its immunoreceptor tyrosine-based switch motifs (ITSM) in the intracellular region and the SH2 domain of adaptor molecules SAP (SLAM-associated protein) and EAT-2 (EWS-activated transcript 2), and accordingly modulate both adaptive and innate immune responses. CD84 expression has been documented on several hematopoietic cell types, including monocytes, macrophages, dendritic cells, B lymphocytes, and platelets. Activation of cell surface CD84 initiates a signaling cascade involving its intra-cytoplasmic

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tyrosine residues that results in Bcl-2 upregulation, which in turn enhances cell survival. Either immunoneutralization or blockade of CD84 with a CD84 extracellular domain protein fragment induces cell death in vitro and in vivo.

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