

## Mouse CD5 Protein, His Tag (MALS verified)

Catalog # CD5-M52H4



BIOSYSTEMS  
**Acro**

Surprise Inside!

### Synonym

CD5, LEU1

### Source

Mouse CD5 Protein, His Tag (CD5-M52H4) is expressed from human 293 cells (HEK293). It contains AA Gln 24 - Asn 370 (Accession # [P13379](#)).

Predicted N-terminus: Gln 24

### Molecular Characterization

CD5(Gln 24 - Asn 370)  
P13379

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 39.7 kDa. The protein migrates as 48-58 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

### Endotoxin

Less than 0.05 EU per µg by the LAL method / rFC method.

### Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

### Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

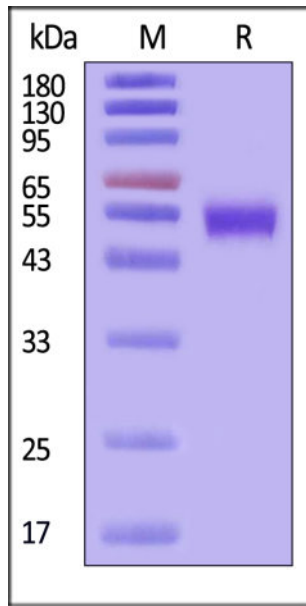
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### ACRO Quality Management System

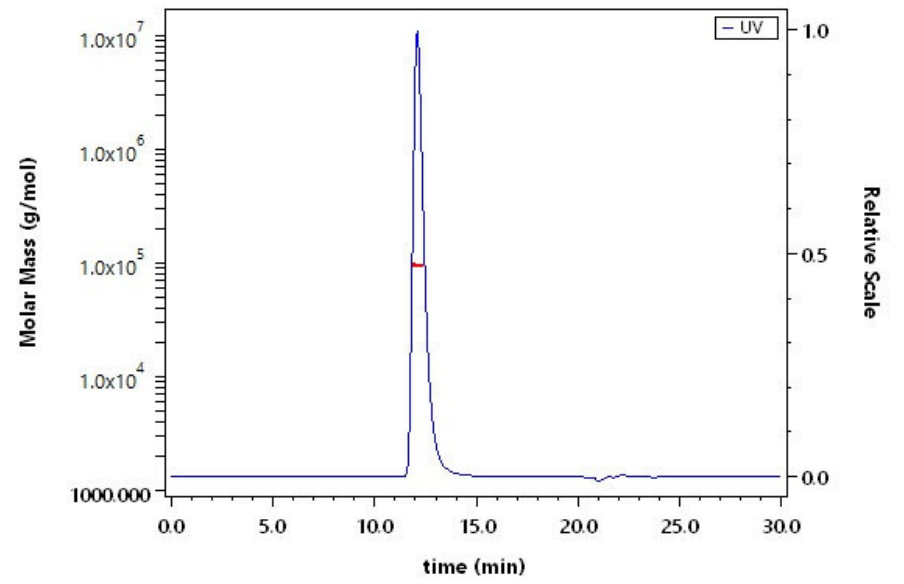
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



Mouse CD5 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Mouse CD5 Protein, His Tag (Cat. No. CD5-M52H4) is more than 90% and the molecular weight of this protein is around 85-110 kDa verified by SEC-MALS.

## Background

T-cell surface glycoprotein CD5 is also known as Lymphocyte antigen T1/Leu-1 and LEU1, which is phosphorylated on tyrosine residues by LYN, so CD5 can create binding sites for PTPN6/SHP-1. CD5 may act as a receptor in regulating T-cell proliferation. CD5 is expressed at various developmental and activation stages on human B cells. CD5 is a well established negative regulator of TCR and BCR signalling. CD5-positive cells may also prevent the emergence of autoimmunity by provision of cytokines such as IL-10. Development, selection and function of different B- and T-cell subsets or their preferential survival may be directly or indirectly dependent on different glycan structures associated with CD5 or CD5-like molecules.

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