

# Biotinylated Mouse uPAR / PLAUR Protein, His,Avitag™ (MALS & SPR verified)

Catalog # UPR-M82E3



BIOSYSTEMS  
**Acro**

## Synonym

uPAR, PLAUR, CD87, MO3

## Source

Biotinylated Mouse uPAR Protein, His,Avitag (UPR-M82E3) is expressed from human 293 cells (HEK293). It contains AA Leu 24 - Pro 296 (Accession # [P35456-1](#)).

Predicted N-terminus: Leu 24

## Molecular Characterization

uPAR(Leu 24 - Pro 296)  
P35456-1

Poly-his

Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 33.6 kDa. The protein migrates as 52-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

**Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.**

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## 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.**

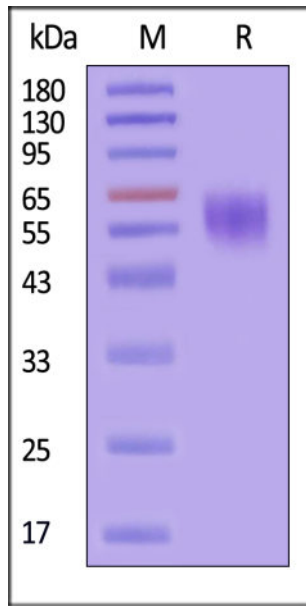
This product is stable after storage at:

- -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

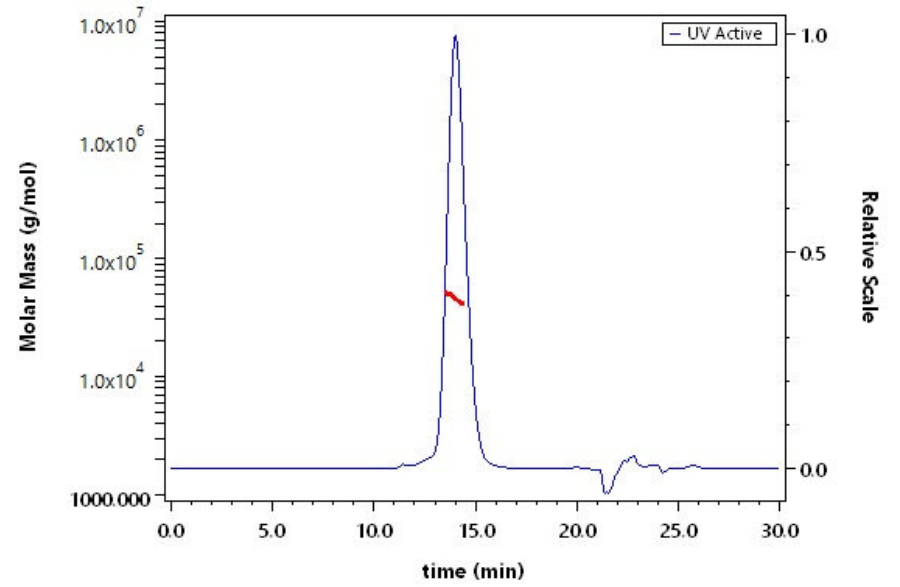
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



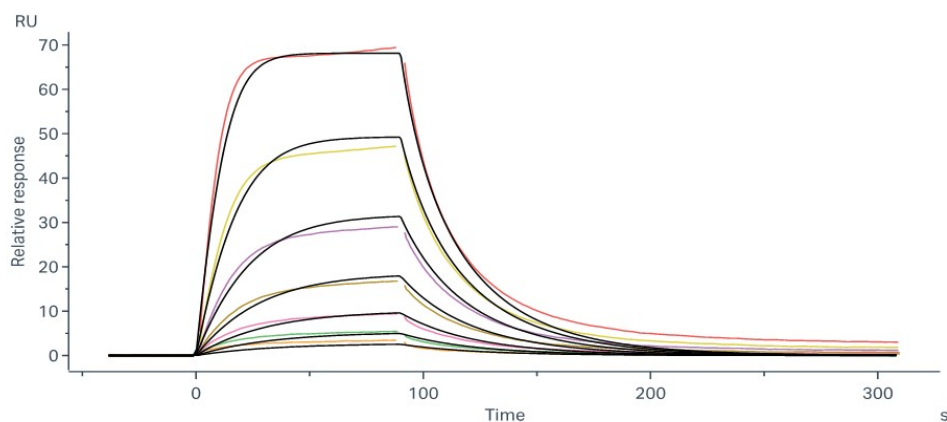
Biotinylated Mouse uPAR Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Biotinylated Mouse uPAR Protein, His,Avitag (Cat. No. UPR-M82E3) is more than 90% and the molecular weight of this protein is around 50-65 kDa verified by SEC-MALS.

## Bioactivity-SPR



Biotinylated Mouse uPAR Protein, His,Avitag (Cat. No. UPR-M82E3) immobilized on SA Chip can bind Human PLAUR, His Tag (Cat. No. PLU-H5228) with an affinity constant of 12.4 nM as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

Urokinase plasminogen activator surface receptor (U-PAR) is also known as PLAUR, Monocyte activation antigen Mo3, CD antigen CD87. PLAUR contains three UPAR/Ly6 domains. U-PAR is expressed in neurons of the rolandic area of the brain (at protein level) and is also expressed in the brain. PLAUR / CD87 interacts with MRC2, SRPX2 and SORL1. PLAUR / UPAR acts as a receptor for urokinase plasminogen activator and plays a role in localizing and promoting plasmin formation. U-PAR mediates the proteolysis-independent signal transduction activation effects of U-PA.

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