

Human ULBP4 Protein, His Tag (MALS verified)

Catalog # UL4-H52H3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

ULBP4

Source

Human ULBP4 Protein, His Tag (UL4-H52H3) is expressed from human 293 cells (HEK293). It contains AA His 31 - Asp 225 (Accession # [Q8TD07](#)).

Predicted N-terminus: His 31

Molecular Characterization

ULBP4(His 31 - Asp 225)
Q8TD07

Poly-his

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

The protein has a calculated MW of 24.3 kDa. The protein migrates as 33-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 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.

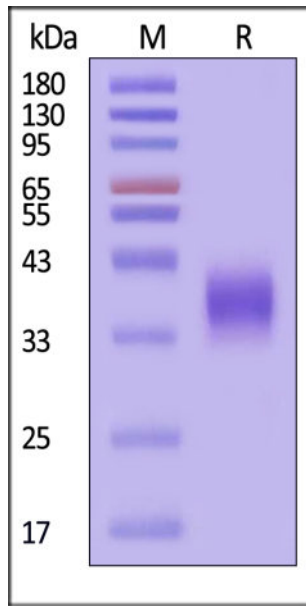
This product is stable after storage at:

- -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

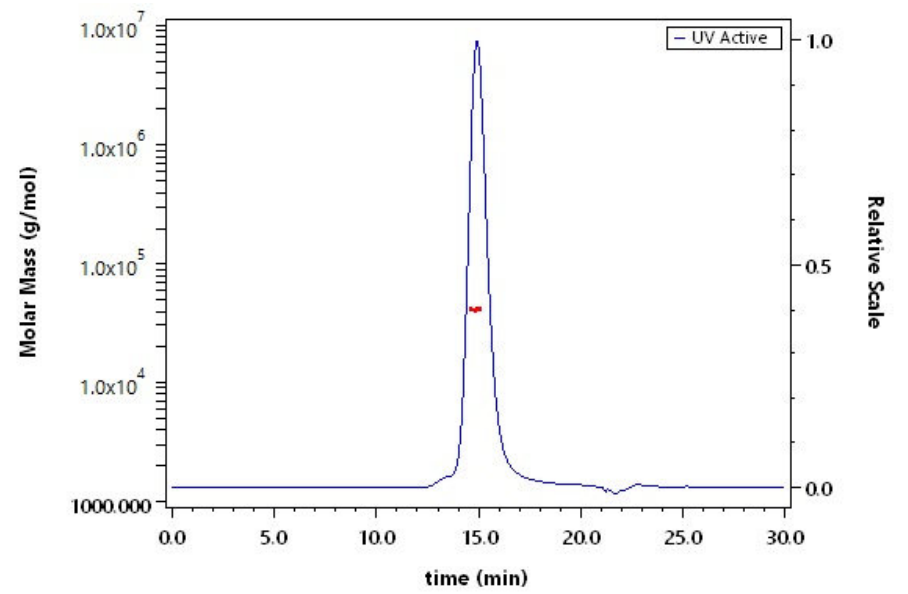
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



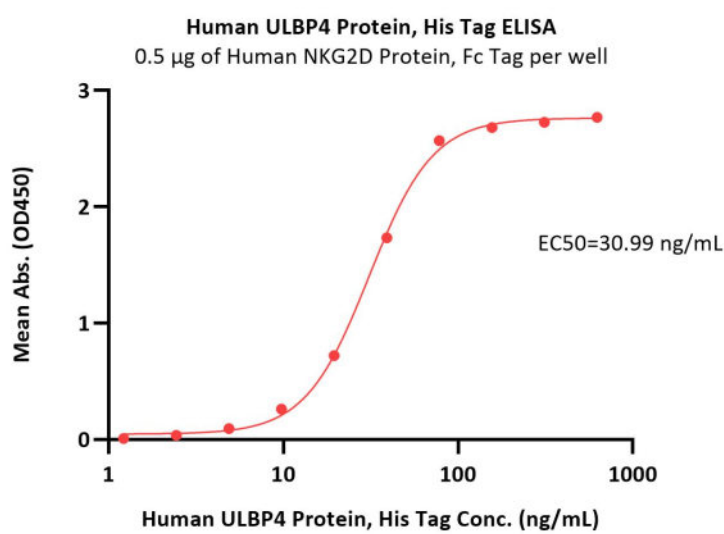
Human ULBP4 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human ULBP4 Protein, His Tag (Cat. No. UL4-H52H3) is more than 90% and the molecular weight of this protein is around 30-45 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human NKG2D Protein, Fc Tag (Cat. No. NKD-H5265) at 5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human ULBP4 Protein, His Tag (Cat. No. UL4-H52H3) with a linear range of 1-78 ng/mL (QC tested).

Background

ULBP4 (UL16-binding protein 4), also known as RAET1E (retinoic acid early transcript 1E), NKG2DL4 (NKG2D ligand 4) and LETAL (lymphocyte effector cell toxicity activating ligand), is a member of the ULBP/RAET1 family. This and ULBP-5/RAET1G protein differ from other RAET1 proteins in that they have type I membrane-spanning sequences at their C termini rather than glycosylphosphatidylinositol anchor sequences. This protein functions as a ligand for NKG2D receptor, which is expressed on the surface of several types of immune cells, and is involved in innate and adaptive immune responses.

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