

Human ULBP6 Protein, His Tag (MALS verified)

Catalog # UL6-H52H3



Synonym

RAET1H, ULBP6

Source

Human ULBP6 Protein, His Tag (UL6-H52H3) is expressed from human 293 cells (HEK293). It contains AA Arg 26 - Gly 218 (Accession # [Q5VY80](#)).

Predicted N-terminus: Arg 26

Molecular Characterization

ULBP6(Arg 26 - Gly 218) Q5VY80	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 23.7 kDa. The protein migrates as 27-32 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.

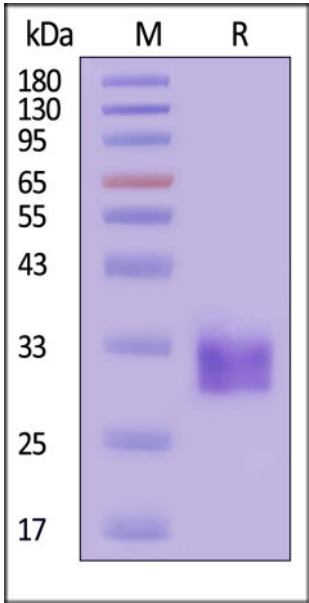
This product is stable after storage at:

- -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

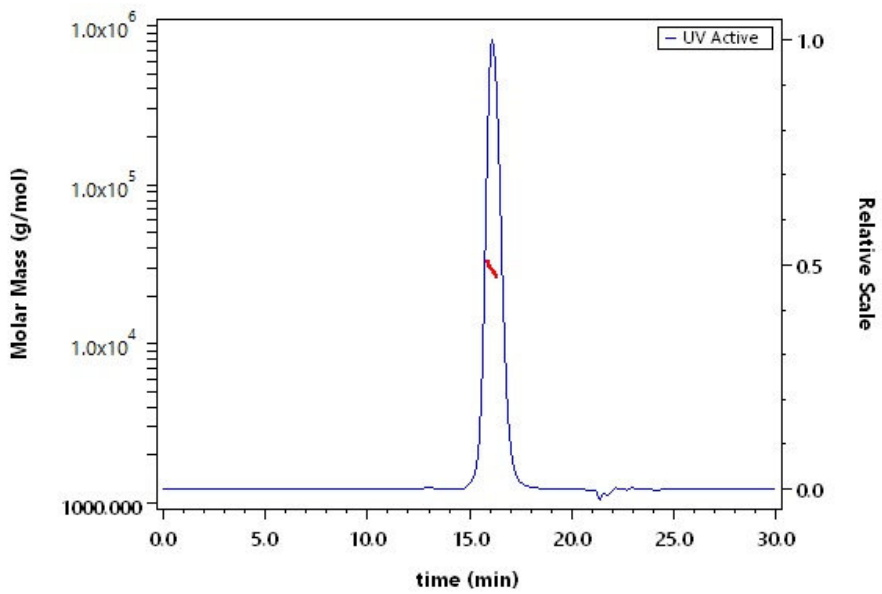
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



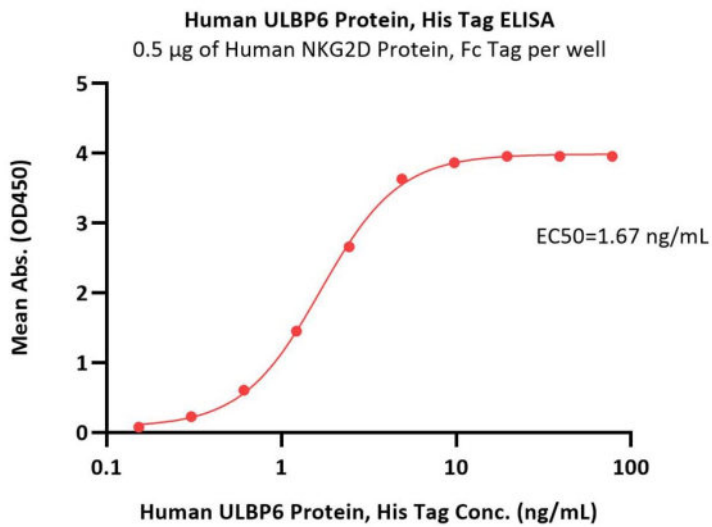
Human ULBP6 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



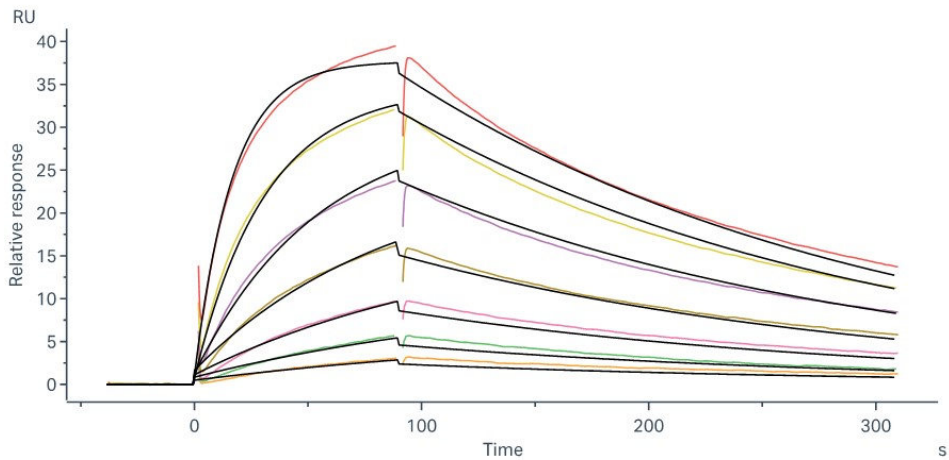
The purity of Human ULBP6 Protein, His Tag (Cat. No. UL6-H52H3) is more than 90% and the molecular weight of this protein is around 24-35 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human NKG2D Protein, Fc Tag (Cat. No. NKD-H5265) at 5 µg/mL (100 µL/well) can bind Human ULBP6 Protein, His Tag (Cat. No. UL6-H52H3) with a linear range of 0.2-5 ng/mL (QC tested).

Bioactivity-SPR



Human ULBP6 Protein, His Tag(Cat. No. UL6-H52H3) immobilized on CM5 Chip can bind Human NKG2D Protein, Fc Tag (Cat. No. NKD-H5265) with an affinity constant of 22 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

ULBP6, also known as RAET1L and N2DL-6, belongs to the MHC class I-related proteins of the RAET1 family. ULBP6 is a glycoprotein containing extracellular α -1 and α -2 domains, but lacking the membrane proximal Ig like α -3 domain, anchored to the membrane via glycosylphosphatidylinositol (GPI) linkage. ULBP6 is widely expressed on the surface of epithelial cells, endothelial cells, and immune cells, with upregulated expression under stress or tumor conditions. Its core function

is to bind to the NKG2D receptor on NK cells, activating their cytotoxic activity, participating in innate immune surveillance, and regulating immune responses in the tumor microenvironment. Currently, it is regarded as a potential immunotherapeutic target for tumors such as melanoma and lung cancer, exerting therapeutic effects by enhancing NK cell-mediated tumor killing.



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