

# Recombinant Human NKG2D ligand 3/ULBP3 Protein

Catalog No.: RP00240 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	79465	Q9BZM4

### Tags

C-hFc&His

### Synonyms

ULBP3

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
49.03 kDa	55-60 kDa

### Endotoxin

< 0.01 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

ULBP-3 is a member of a family of cell-surface proteins that function as ligands for human NKG2D. ULBP-3 has also been described under the names RaeT1N (retinoic acid early transcript), NKG2DL3, and ALCAN-gamma. The name ULBP-3 derives from the original identification of three proteins, ULBP-1, -2, and -3, as ligands for the human cytomegalovirus glycoprotein UL16; they were designated UL16 binding proteins (ULBP). The gene for ULBP-3 resides in a cluster of ten related genes, six of which encode potentially functional glycoproteins. Amino acid sequence identity within this family ranges from 30-60%. These proteins are distantly related to MHC class I proteins, but they possess only the alpha 1 and alpha 2 Ig-like domains, and they have no capacity to bind peptide or interact with beta 2-microglobulin. Some family members, including ULBP-3, are anchored to the membrane via a GPI-linkage, whereas others have transmembrane domains.

## Basic Information

### Description

Recombinant Human NKG2D ligand 3/ULBP3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gly27-Pro216) of human ULBP-3 (Accession #NP\_078794) fused with an Fc, 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human ULBP3 (Catalog: RP00240) Protein at 2 μg/mL (100 μL/well) can bind NKG2D-raFc (Catalog: RP01530) with a linear range of 9.8-2009.2 ng/mL.

### Storage

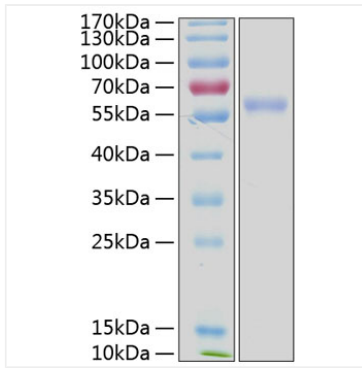
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human NKG2D ligand 3/ULBP3  
Protein was determined by SDS-PAGE with  
Coomassie Blue, showing a band at 59 kDa.