

# Recombinant Human NKG2D ligand 2/ULBP2 Protein

Catalog No.: RP00267 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 80328   | Q9BZM5     |

### Tags

C-hFc&His

### Synonyms

ULBP2;ALCAN-alpha;N2DL2;NKG2DL2;RAET1H

## Product Information

| Source       | Purification       |
|--------------|--------------------|
| HEK293 cells | > 92% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 48.52 kDa     | 60-70 kDa   |

### Endotoxin

< 0.1 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

ULBP2 Protein, Human, Recombinant (His Tag) consists of 203 amino acids with a molecular weight of 23.2 kDa. The apparent molecular mass of recombinant human ULBP2 is about 33 kDa in SDS-PAGE under reducing conditions because of glycosylation. NKG2D ligand 2 is cell membrane protein belonging to the MHC class I family. The gene for ULBP-2 resides in a cluster of ten related genes, six of which encode potentially functional glycoproteins. ULBPs are known to bind to human NKG2D, an activating receptor expressed on NK cells, NKT cells, gamma δ T cells, and CD8+ alpha beta T cells, resulting in the production of cytokines and chemokines. Binding of ULBP2 ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. ULBP2 / N2DL-2 is not expressed in normal tissues, but in various types of cancer cell lines and the fetus and has been implicated in tumor surveillance.

## Basic Information

### Description

Recombinant Human NKG2D ligand 2/ULBP2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly26-Ser217) of human ULBP2 (Accession #NP\_079493.1) fused with an Fc, 6xHis tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human ULBP2 Protein at 2 μg/mL (100 μL/well) can bind NKG2D-raFc with a linear range of 1.95-336.7 ng/mL.

### Storage

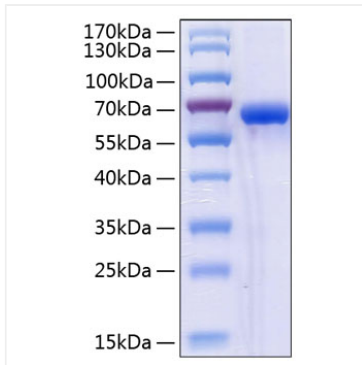
Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

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

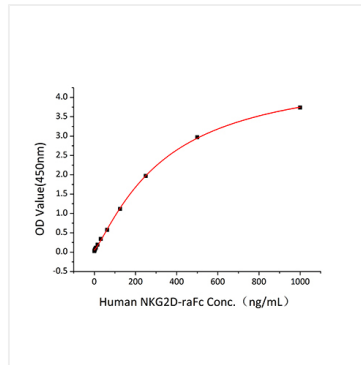
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human NKG2D ligand 2/ULBP2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-65 kDa.



Immobilized Human ULBP2 Protein at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind NKG2D-raFc with a linear range of 1.95-336.7ng/mL.