

## ULBP-2 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	ALCAN- $\alpha$ ;NKG2DL2;ULBP2;ALCAN-alpha;ULBP-2/5/6;N2DL2;RAET1L;RAET1H;NKG2D ligand 2
Protein Construction:	Gly26-Ser217
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BZM5
Molecular Weight:	24.6 kDa (predicted). Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Biotinylated Human ULBP-2, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/well) on the streptavidin precoated plate (5 $\mu$ g/ml). Dose response curve for Human NKG2D, hFc Tag with the EC50 of 1.4 $\mu$ g/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

ULBP2 expression was however linked to expression of mature CD57(+) NK cells. In particular, expression of ULBP2 was strongest on those NK cells that had evidence of recent activation and proliferation. We suggest that ULBP2 could be used to identify recently activated "mature" NK cells.

Reference

Brennan K, et al. Human Natural Killer cell expression of ULBP2 is associated with a mature functional phenotype. Hum Immunol. 2016 Oct;77(10):876-885. doi: 10.1016/j.humimm.2016.06.018. Epub 2016 Jun 24. PMID: 27349945.

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