

## ULBP-1 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	ALCAN- $\beta$ ;NKG2D ligand 1;ULBP-1;NKG2DL;MULT-1;ULBP1;ALCAN-beta;N2DL-1;NKG2DL1;AET11
Protein Construction:	Gly26-Pro215
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9BZM6
Molecular Weight:	25.2 kDa (predicted). Due to glycosylation, the protein migrates to 28-35 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Human NKG2D, hFc Tag at 2 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human ULBP-1, His Tag with the EC50 of 148.5ng/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:	Supplied as 0.22 $\mu$ m filtered solution in 20 mM PB, 0.5M NaCl, 0.1M L-arginine (pH 8.0).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Cell surface proteins major histocompatibility complex (MHC) class I-related chain A (MICA) and UL16-binding proteins (ULBP) 1, 2, and 3 are up-regulated upon infection or tumor transformation and can activate human natural killer (NK) cells.

#### Reference

Schrama D, et al. Expression of the NKG2D ligand UL16 binding protein-1 (ULBP-1) on dendritic cells. Eur J Immunol. 2006;36(1):65-72. doi:10.1002/eji.200535115

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