

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

General Information

Synonyms:	ALCAN-beta;ALCAN-β;ULBP-1;MULT-1;NKG2D ligand 1;AET11;NKG2DL;NKG2DL1;N2DL-1;ULBP1
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 ULBP-1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 33.2ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM PB, 0.5M NaCl, 0.1M L-arginine (pH 8.0). 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 µg/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

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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