

ULBP-6 Protein, Human, Recombinant (aa 26-218, hFc)

General Information

Synonyms:	RAET1L;ULBP6
Protein Construction:	Arg26-Gly218
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5VY80
Molecular Weight:	48.61 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human NKG2D, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human ULBP-6, hFc Tag with the EC50 of 5.7ng/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 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 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

ULBP6/RAET1L (UL16-binding protein, also known as retinoic acid early transcript), is expressed as a full-length transcript in cells and encodes a protein that is a ligand for both NKG2D and the UL16 protein of HCMV.

Reference

Eagle RA, et al. ULBP6/RAET1L is an additional human NKG2D ligand. Eur J Immunol. 2009 Nov;39(11):3207-16.
doi: 10.1002/eji.200939502. PMID: 19658097.

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