

## ULBP-4 Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	LETAL;bA350J20.7;RL-4;RAET1E2;retinoic acid early transcript 1E;NKG2DL4;ULBP4;N2DL-4
Protein Construction:	His31-Asp225
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8TD07-1
Molecular Weight:	49.12 kDa (Predicted); 60-70 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Human ULBP-4, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag with an affinity constant of 0.17 $\mu$ M as determined in SPR assay (Biacore T200).
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 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant 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

UL16-binding proteins (ULBPs) are markers of cellular stress which are upregulated on the surface of virus-infected and tumor cells. ULBPs are expressed by a variety of leukemias, carcinomas, melanomas, and tumor cell lines. ULBP4 is associated with higher levels of CD8+/NKG2D+ lymphocytes infiltrating the carcinoma and is a prognosticator of improved survival.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481