

Human ULBP-2 Protein, Ultra Low Endotoxin

Cat. No. ULB-HM202-UL

Description

Source	Recombinant Human ULBP-2 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Gly26-Ser216.
Accession	Q9BZM5
Molecular Weight	The protein has a predicted MW of 48.40 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

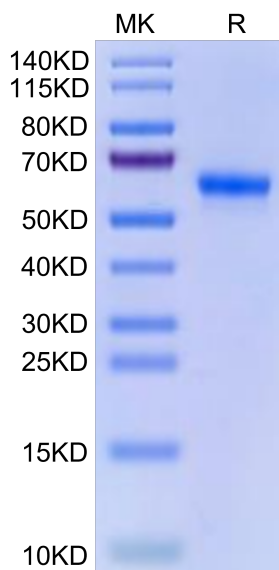
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBPs ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway, mediating natural killer cell cytotoxicity.

Assay Data

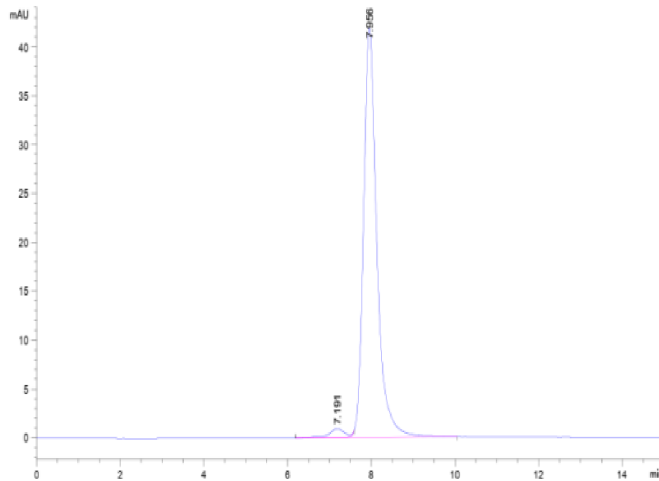
Bis-Tris PAGE



Human ULBP-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

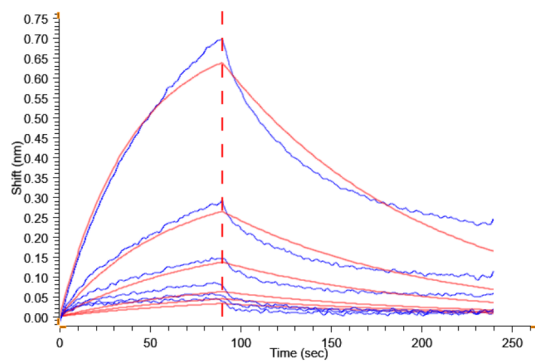
SEC-HPLC

Assay Data



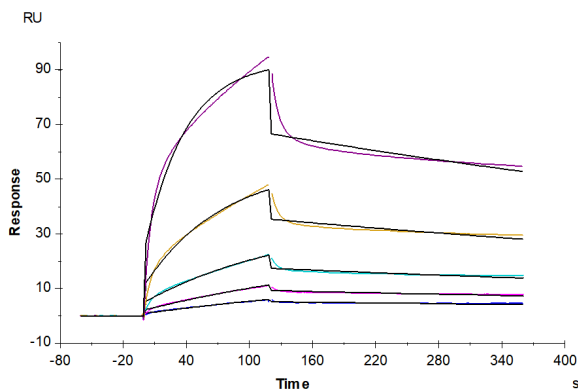
The purity of Human ULBP-2 is greater than 95% as determined by SEC-HPLC.

BLI Data



Loaded Human ULBP-2, hFc Tag on ProA-Biosensor can bind Human NKG2D, His Tag (Cat. NKG-HM42D) with an affinity constant of 1.16 μM as determined in BLI assay .

SPR Data



Human ULBP-2, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag (Cat. NKG-HM42D) with an affinity constant of 62.42 nM as determined in SPR assay (Biacore T200).