

# Human ULBP-2 Protein

Cat. No. ULB-HM202



## Description

<b>Source</b>	Recombinant Human ULBP-2 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gly26-Ser216.
<b>Accession</b>	Q9BZM5
<b>Molecular Weight</b>	The protein has a predicted MW of 48.40 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

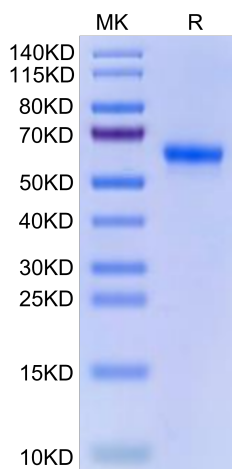
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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

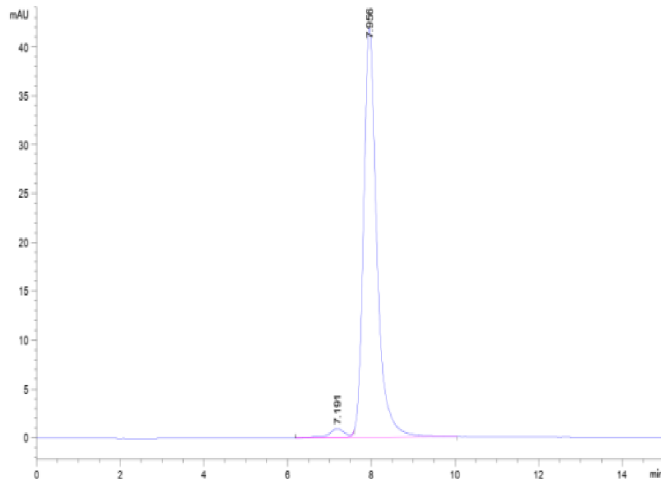
### Tris-Bis PAGE



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

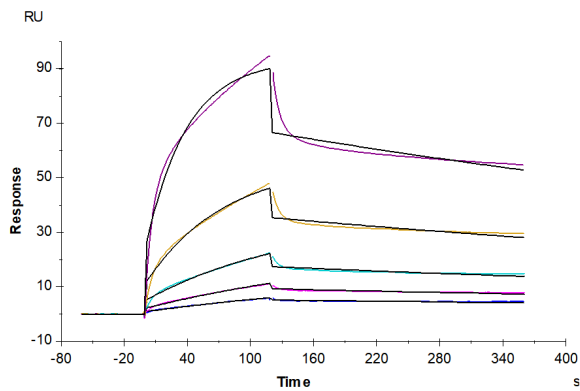
### SEC-HPLC

Assay Data



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

SPR Data



Human ULBP2, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag with an affinity constant of 62.42 nM as determined in SPR assay (Biacore T200).