

# Cynomolgus ULBP-2 Protein, Ultra Low Endotoxin

Cat. No. ULB-CM102-UL

## Description

<b>Source</b>	Recombinant Cynomolgus ULBP-2 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly26-Ser216.
<b>Accession</b>	XP_001082656.3
<b>Molecular Weight</b>	The protein has a predicted MW of 23.38 kDa. Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

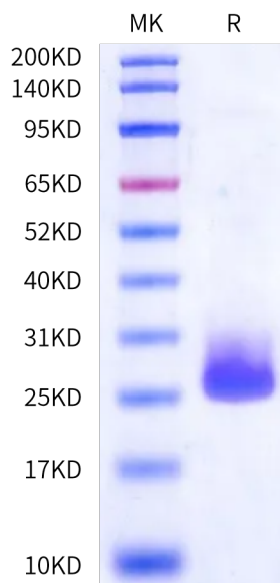
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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

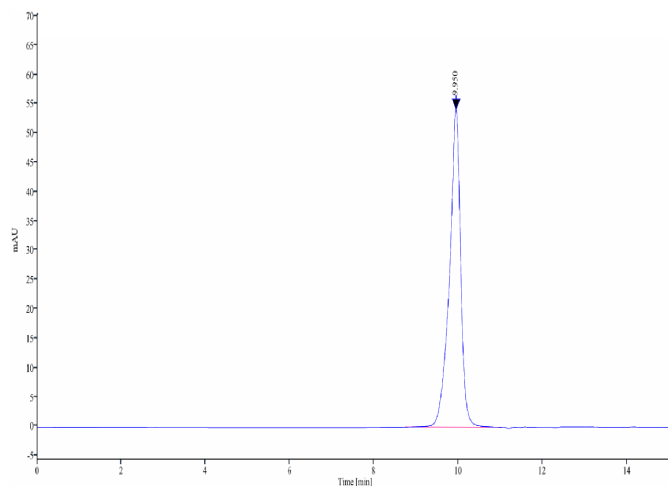
### Bis-Tris PAGE



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

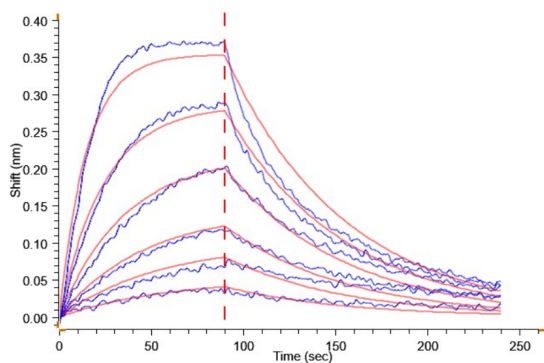
### SEC-HPLC

Assay Data



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

BLI Data



Loaded Human NKG2D, hFc Tag (Cat. NKG-HM22D) on ProA-Biosensor can bind Cynomolgus ULBP-2, His Tag with an affinity constant of 30.00 nM as determined in BLI assay