

Human ULBP-2 Protein

Cat. No. ULB-HM402

Description

Source	Recombinant Human ULBP-2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly26-Ser217.
Accession	Q9BZM5
Molecular Weight	The protein has a predicted MW of 24.6 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

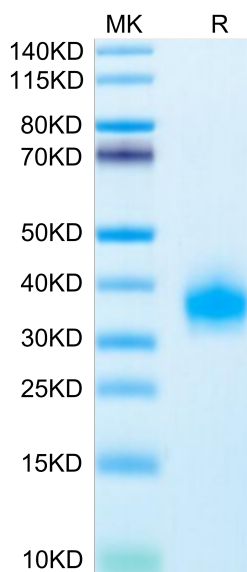
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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

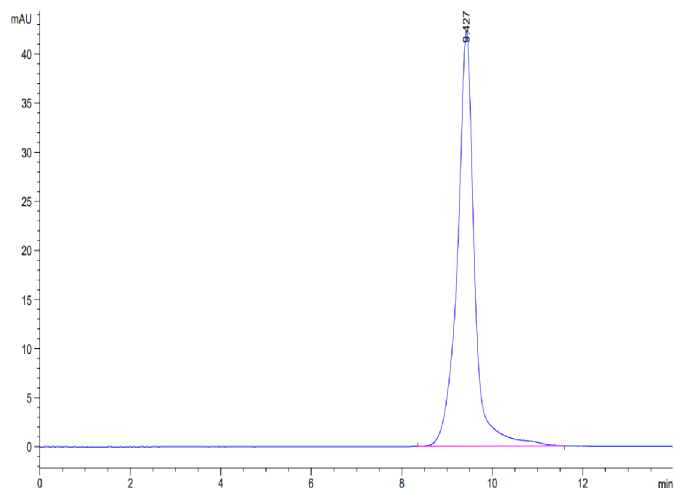
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

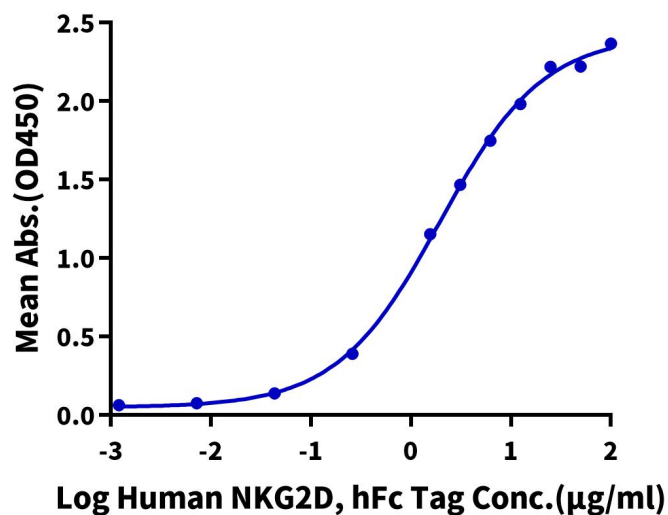


The purity of Human ULBP-2 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ULBP-2, His Tag ELISA

0.5µg Human ULBP-2, His Tag Per Well



Immobilized Human ULBP-2, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 1.96µg/ml determined by ELISA.