

Human ULBP-1 Protein

Cat. No. ULB-HM4P1

Description

Source	Recombinant Human ULBP-1 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly26-Pro215.
Accession	Q9BZM6
Molecular Weight	The protein has a predicted MW of 25.2 kDa. Due to glycosylation, the protein migrates to 28-35 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in 20mM PB, 0.5M NaCl, 0.1M L-arginine (pH 8.0). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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 avoid freeze-thaw cycles.

Background

Cell surface proteins major histocompatibility complex (MHC) class I-related chain A (MICA) and UL16-binding proteins (ULBP) 1, 2, and 3 are up-regulated upon infection or tumor transformation and can activate human natural killer (NK) cells.

Assay Data

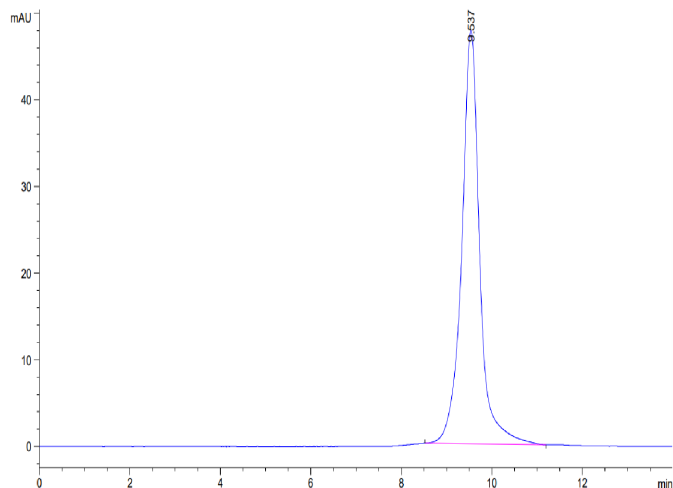
Tris-Bis PAGE



Human ULBP-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

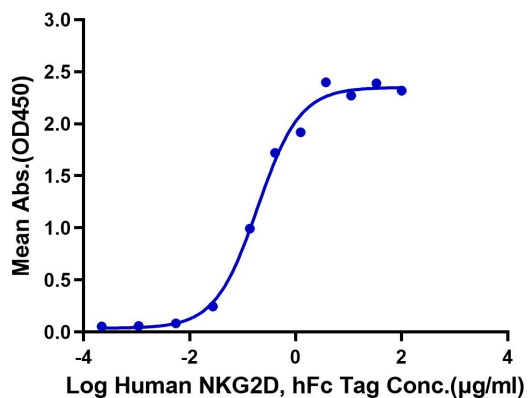


The purity of Human ULBP-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ULBP-1, His Tag ELISA

0.2µg Human ULBP-1, His Tag Per Well



Immobilized Human ULBP-1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.19µg/ml determined by ELISA.