

Human ULBP-4 Protein

Cat. No. ULB-HM204

Description

Source	Recombinant Human ULBP-4 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains His31-Asp225.
Accession	Q8TD07-1
Molecular Weight	The protein has a predicted MW of 49.12 kDa. Due to glycosylation, the protein migrates to 60-70 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 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 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 minimize freeze-thaw cycles.

Background

UL16-binding proteins (ULBPs) are markers of cellular stress which are upregulated on the surface of virus-infected and tumor cells. ULBPs are expressed by a variety of leukemias, carcinomas, melanomas, and tumor cell lines. ULBP4 is associated with higher levels of CD8+/NKG2D+ lymphocytes infiltrating the carcinoma and is a prognosticator of improved survival.

Assay Data

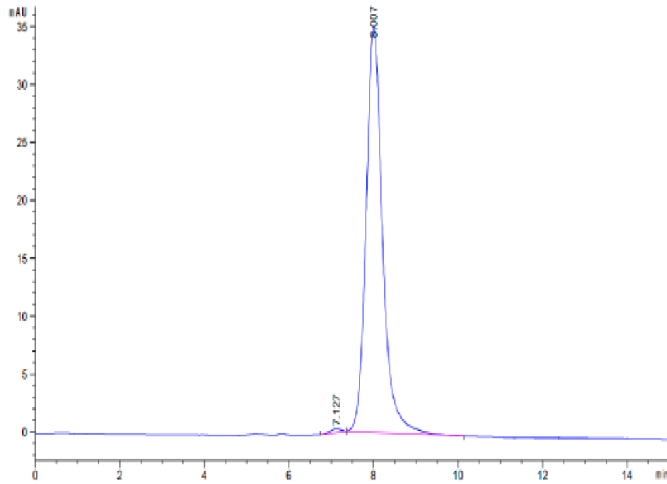
Tris-Bis PAGE



Human ULBP-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

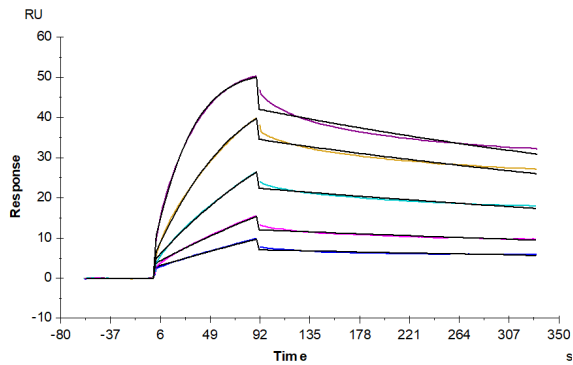
SEC-HPLC

Assay Data



The purity of Human ULBP-4 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human ULBP-4, hFc Tag captured on CM5 Chip via Protein A can bind Human NKG2D, His Tag with an affinity constant of 0.17 μM as determined in SPR assay (Biacore T200).