

## 32-5189: Recombinant Human UL16 Binding Protein 3

**Alternative Name :** UL16 Binding Protein 3, Retinoic Acid Early Transcript 1N, ALCAN-Gamma, NKG2DL3, N2DL-3, RAET1N, UL16-Binding Protein 3, NKG2D Ligand 3, N2DL3, ULBP3.

### Description

Source : Escherichia Coli. ULBP3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Asp30-Gly217) containing 198 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 23.25kDa. UL16 Binding Protein 3 (ULBP3) is a ligand for the NKG2D receptor in NK cells. ULBPs activate different signaling pathways resulting in the production of cytokines and chemokines. ULBP3 is a ligand for the KLRK1/NKG2D receptor, along with at least ULBP1 and ULBP2. Binding of ULBPs ligands to KLRK1/NKG2D stimulates calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. ULBP3 has lower affinity for KLRK1/NKG2D compared to ULBP1 and ULBP2 and stimulates weaker signaling responses than does ULBP2 or ULBP1.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** ULBP3 was filtered (0.4µm) and lyophilized in 20mM Tris buffer, 50mM NaCl and 0.1% v/v amisoft CS-22, pH 7.5.  
**Storage condition :** Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.  
**Amino Acid :** MKHHHHHHASDAHSLWYNFT IHLPRHGQQ WCEVQSQVDQ KNFLSYDCGS DKVLSMGHLE  
EQLYATDAWG QLEMLREVG QRLRLELADT ELEDFTPSGP LTLQVRMSCE CEADGYIRGS WQFSFDGRKF  
LLFDSNNRKW TVVHAGARRM KEKWEKDSGL TTFKVMVSMR DCKSWLRDFL MHRKKRLEPT APPTMAPG.

### Application Note

It is recommended to add 200µl of deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. ULBP3 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

