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## Product Data Sheet

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Product Name: ULBP1 Human  
 Cat. No.: GP21031  
 Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Escherichia Coli.       |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | UL16 Binding Protein 1; Retinoic Acid Early Transcript 1I; alcan-beta; NKG2D Ligand 1; NKG2DL1; RAET1I; N2DL-1.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSHEMGWVDT HCLCYDFIIT PKSRPEPQWC<br>EVQGLVDERP FLHYDCVNHK AKAFASLGKK VNVTKTWEEQ TETLRDVVDF<br>LKGQLLDIQV ENLIPIEPLT LQARMSCEHE AHGHGRGSWQ FLFNGQKFLF<br>FDSNNRKWTA LHPGAKKMTE KWEKNRDVTM FFQKISLGDC KMWLEEFLLMY<br>WEQMLDPTKP PSLAPG |                    |                         |
| Formulation         | The ULBP1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 150mM NaCl and 30% glycerol.  |                    |                         |

### Introduction

ULBP1 together with at least ULBP2 and ULBP3, is ligand for the NKG2D receptor. ULBPs stimulate various signaling pathways in primary NK cells, which result in cytokines and chemokines production. In CMV infected cells, ULBP1 cooperates with soluble CMV glycoprotein UL16 to inhibit the interaction with the NKG2D receptor providing a mechanism by which CMV infected cells escape the immune system. Additionally, UL16 retains ULBP1 to the ER and cis-Golgi apparatus to prevent it from reaching cell surface.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ULBP1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 216 amino acids (26-216) and having a molecular mass of 25.0 kDa. ULBP1 is fused to a 25 amino acid His-tag at N-terminus AND purified by using conventional chromatography techniques.

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