
Product Data Sheet

Product Name: ULBP2 Human, Sf9
 Cat. No.: GP24951
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ULBP2; ALCAN-alpha; N2DL2; NKG2DL2; RAET1H; UL16 Binding Protein 2; Retinoic Acid Early Transcript 1H; UL16-Binding Protein 2;ALCAN-Alpha; NKG2D Ligand 2; N2DL-2.		
Amino Acid Sequence	ADPGRADPHSLCYDITVIPK FRPGPRWCAV QGQVDEKTF L HYDCGNKTVT PVSPLGKKN VTTAWKAQNP VLREVV DILTEQLRDIQLEN YTPKEPLTLQ ARMSCEQKAE GHSSGSWQFS FDGQIFLLFD SEKRMWTTVH PGARKMKEKWENDKVVAMSF HYFSMGDCIG WLEDFLMGMD STLEPSAGAP LAMSHHHHHH.		
Formulation	ULBP2 protein solution (0.5mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

ULBP2 is a member of the MHC class I family. ULBP2 is ligand for the NKG2D receptor, composed with at least ULBP1 and ULBP3. ULBPs promote multiple signaling pathways in primary NK cells, triggering the production of cytokines and chemokines. Binding of ULBPs ligands to NKG2D encourages calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. In CMV infected cells, ULBP2 cooperates with soluble CMV glycoprotein UL16. This cooperation is blocked with the NKG2D receptor, providing a mechanism in which CMV infected cells can escape the immune system. Additionally, UL16 causes ULBP2 to be held in the ER and cis-Golgi apparatus so that it does not reach the 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ULBP2 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 200 amino acids (26-216a.a) and having a molecular mass of 22.7kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). ULBP2 is fused to a 9 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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