9051 Mira Mesa Blvd, #910094
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ULBP2 Human

UL16 Binding Protein 2 Human Recombinant
RCP2509

Product Overview

Name	ULBP2 Human
Description	
UL16 Binding Protein 2 Human Recombinant	
Accession (Primary)	Q9BZM5
Synonyms	
UL16 binding protein 2, retinoic acid early transcript 1 H, NKG2D ligand 2, Retinoic acid early transcript 1H, ALCAN-alpha, N2DL-2, RAET1H.	
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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The ULBP2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M urea, 0.2M NaCl, 2mM DTT and 30% glycerol.	
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.	
Purity	
Greater than 85% as determined by SDS-PAGE.	
Amino acid sequence	

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MGSSHHHHHH SSGLVPRGSH MGSHM GRADP HSLCYDITVI PKFRPGPRWC AVQGQVDEKT FLHYDCGNKT VTPVSPLGKK LNVTTAWKAQ NPVLREVVDI LTEQLRDIQL ENYTPKEPLT LQARMSCEQK AEGHSSGSWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMS

Precautions

ULBP2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9BZM5)