
Product Data Sheet

Product Name: ULBP3 Human
 Cat. No.: GP24952
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	UL16 Binding Protein 3; Retinoic Acid Early Transcript 1N; ALCAN-Gamma; NKG2DL3; N2DL-3; RAET1N; UL16-Binding Protein 3; NKG2D Ligand 3; N2DL3; ULBP3.		
Amino Acid Sequence	MKHHHHHHASDAHSLWYNFT IIHLPRHGQQ WCEVQSQVDQ KNFLSYDCGS DKVLSMGHLE EQLYATDAWG KQLEMLREVG QRLRLELADT ELEDFTPSGP LTLQVRMSCE CEADGYIRGS WQFSFDGRKF LLFDSNNRKW TVVHAGARRM KEKWEKDSGL TFFFKMVSMR DCKSWLRDFL MHRKKRLEPT APPTMAPG.		
Solubility	It is recommended to add 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.		
Formulation	ULBP3 was filtered (0.4 µm) and lyophilized in 20mM Tris buffer, 50mM NaCl and 0.1% v/v amisoft CS-22, pH 7.5.		

Introduction

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.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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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 .

Background

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.

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