Product Data Sheet

Product Name:	ULBP3 Human, Sf9
Cat. No.:	GP26355
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	withIcePacks
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	ADPDAHSLWY NFTIIHLPRH GQQWCEVQSQ VDQKNFLSYD CGSDKVLSMG HLEEQLYATD AWGKQLEMLR EVGQRLRLEL ADTELEDFTP SGPLTLQVRM SCECEADGYI RGSWQFSFDG RKFLLFDSNN RKWTVVHAGA RRMKEKWEKD SGLTTFFKMV SMRDCKSWLR DFLMHRKKRL EPTAPPTMAP GLEPKSCDKT HTCPPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNAKTKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSDGS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGKHHHHHH		
Formulation	The ULBP3 solution (1mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).		

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 at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer

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

ULBP3 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 430 amino acids (30-217a.a) and having a molecular mass of 49.3kDa.ULBP3 is fused to a 239 amino acid hIgG-His-Tag at C-terminus & purified by proprietary chromatographic techniques.

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