

Active Recombinant Human ULBP1 Protein (Gly26-Pro215), C-Fc-tagged

Cat. No. ULBP1-04H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ULBP-1 Protein (Gly26-Pro215) with a Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in <i>Spodoptera frugiperda</i> , Sf 21.
Species	Human
Source	<i>S.frugiperda</i>
ProteinLength	Gly26-Pro215
Description	The protein encoded by this gene is a ligand of natural killer group 2, member D (NKG2D), an immune system-activating receptor on NK cells and T-cells. Binding of the encoded ligand to NKG2D leads to activation of several signal transduction pathways, including those of JAK2, STAT5, ERK and PI3K kinase/Akt. Also, in cytomegalovirus-infected cells, this ligand binds the UL16 glycoprotein and is prevented from activating the immune system. Three transcript variants encoding different isoforms have been found for this gene.
Form	Disulfide-linked homodimer
Bio-activity	Measured by its ability to bind rhNKG2D/Fc Chimera in a functional ELISA.
Molecular Mass	Predicted Molecular Mass: 48.8 kDa (monomer) SDS-PAGE: 55 kDa, reducing conditions

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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N-terminal Sequence Analysis	Gly26
Endotoxin	<0.10 EU/μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	ULBP1 UL16 binding protein 1 [Homo sapiens (human)]
Official Symbol	ULBP1
Synonyms	ULBP1; UL16 binding protein 1; N2DL-1; RAET1I; NKG2DL1; UL16-binding protein 1; NKG2D ligand 1; alcan-beta; retinoic acid early transcript 1I
Gene ID	80329
mRNA Refseq	NM_025218

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Protein Refseq	NP_079494
MIM	605697
UniProt ID	Q9BZM6

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