

Human ULBP2 / N2DL-2 Protein (Fc Tag)

Catalog Number: 12143-H02H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

ALCAN-alpha; N2DL2; NKG2DL2; RAET1H; UNQ463 / PRO791

Protein Construction:

A DNA sequence encoding the human ULBP2 (Q9BZM5) (Met 1-Ser 217), without the pro peptide, was fused with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gly 26

Molecular Mass:

The recombinant human ULBP2/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 433 amino acids and has a predicted molecular mass of 48.7 kDa. As a result of glycosylation, the apparent molecular mass of rhULBP2/Fc monomer is approximately 58 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

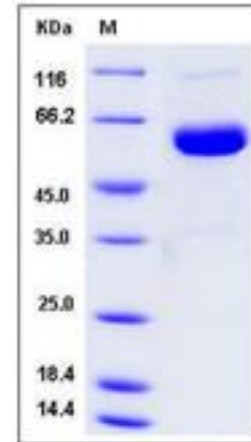
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

NKG2D ligand 2, also known as N2DL-2, NKG2DL2, ALCAN-alpha, Retinoic acid early transcript 1H, UL16-binding protein 2, ULBP2 and N2DL2, is a cell membrane protein which belongs to the MHC class I family. ULBP2 / N2DL-2 is expressed in various types of cancer cell lines and in the fetus, but not in normal tissues. ULBP2 / N2DL-2 is a ligand for the NKG2D receptor, together with at least ULBP1 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBP ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway.

References

1. Cosman D. et al., 2001, Immunity 14:123-133
2. Cerwenka A., et al., 2003, Tissue Antigens 61:335-343
3. Chang, Y.T. et al., 2011, PLoS One. 6 (5):e20029

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Fax : +86-10-51029969 • Tel: +86-400-890-9989 • <http://www.sinobiological.com>