

For Research Use Only

Recombinant Human ULBP1 protein (His Tag)



Catalog Number: Eg0839

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human ULBP1 protein Gly26-Gly216 (Accession# Q9BZM6) with a His tag at the C-terminus.

GeneID:

80329

Accession:

Q9BZM6

Predicted Molecular Mass:

23.4 kDa

SDS-PAGE:

26-30 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ULBP1, or UL16 binding protein 1, is a member of the ULBP family, which consists of MHC class I-related molecules. These proteins play a critical role in the immune response, particularly in activating natural killer (NK) cells. ULBP1 binds to the NKG2D receptor on NK cells, which is a critical step in the activation of these immune cells. ULBP1 is also known for its interaction with the human cytomegalovirus (HCMV) glycoprotein UL16, which helps the virus evade immune detection. The engagement of ULBP1 with NK cell receptors prompts the activation of these immune cells, leading to a more robust immune response against infected cells.

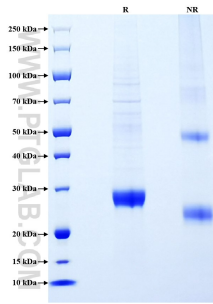
References

- 1.Pende D,et al. (2002) Cancer Res. 62 (21):6178-86.
- 2.Kubin M,et al. (2001) Eur J Immunol. 31 (5):1428-37.
- 3.Valés-Gómez M, et al. (2006). Cell Microbiol. 8 (4):581-90.

Synonyms

ULBP1, ALCAN beta, ALCAN-beta, N2DL1, N2DL-1

Selected Validation Data



Purity of Recombinant Human ULBP1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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