NKG2D Ligand 4 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: NKG2D ligand 4, N2DL-4, NKG2DL4, Lymphocyte effector toxicity activation ligand, RAE-1-like transcript 4, RL-4, Retinoic acid early transcript 1E, RAET1E

Cat. No.:
RD172314100 (0.1 mg)

Description

Total 192 AA. MW: 22 kDa (calculated). UniProtKB acc.no. Q8TD07 isoform 3. N-terminal histag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

NKG2D ligand 4 (ULBP4) acts as a ligand for the NKG2D receptor on the surface of NK cells. Its binding to the receptor induces expansion of anti-tumor cytotoxic lymphocytes. It is expressed mainly in skin, also in testes or trachea. It is up-regulated in different tumors.NKG2D ligand 4 (ULBP4) does not interacts with the CMV glycoprotein UL16.NKG2D ligand 4 (ULBP4) is expressed in two variants, as a membrane and soluble isoform.

Amino Acid Sequence

MKHHHHHHAS HSLCFNFTIK SLSRPGQPWC EAQVFLNKNL FLQYNSDNNM VKPLGLLGKK VYATSTWGEL TQTLGEVGRD LRMLLCDIKP QIKTSDPSTL QVEMFCQREA ERCTGASWQF ATNGEKSLLF DAMNMTWTVI NHEASKIKET WKKDRGLEKY FRKLSKGDCD HWLREFLGHW EAMPEPTGRR ST

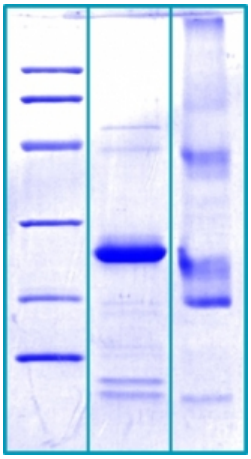
Source

E. coli

Purity

Purity as determined by densitometric image analysis: > 85 %

SDS-PAGE gel



14 % SDS-PAGE separation of Human NKG2D ligand 4 :
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and boiled sample, 2.5 µg/lane
3. non-reduced and non-boiled sample, 2.5 µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.05M Acetate buffer pH 4.0, 1% (w/v) Sucrose, 4% (w/v) Mannitol

Reconstitution

Add 0.1 M acetate buffer pH 4.0 to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited.Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

Quality Control Test

BCA to determine quantity of the protein.
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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