# NKG2D Ligand 3 Human E. coli

## Product Data Sheet

**Type:** Recombinant
**Source:** E. coli
**Species:** Human
**Other names:** N2DL-3, NKG2DL3, ALCAN-gamma, Retinoic acid early transcript 1N

**Cat. No.:**
RD172313100 (0.1 mg)

## Description

Total 198 AA. MW: 23.25 kDa (calculated). UniProtKB acc.no. Q9BZM4 (Asp30-Gly217). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

## Introduction to the Molecule

NKG2D ligand 3 is a ligand for the NKG2D receptor in NK cells.NKG2D ligands (ULBPs) activate different signalig pathways resulting in the production of cytokines and chemokines.

## Amino Acid Sequence

**MKHHHHHHAS** DAHSLWYNFT IIHLPRHGQQ WCEVQSQVDQ KNFLSYDCGS DKVLSMGHLE EQLYATDAWG KQLEMLREVG QRLRLELADT ELEDFTPSGP LTLQVRMSCE CEADGYIRGS WQFSFDGRKF LLFDSNNRKW TVVHAGARRM KEKWEKDSGL TTFFKMVSMR DCKSWLRDFL MHRKKRLEPT APPTMAPG

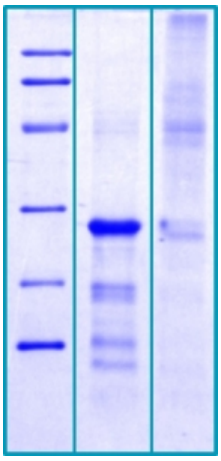
## Source

E. coli

## Purity

Purity as determined by densitometric image analysis: > 90 %

## SDS-PAGE gel



14 % SDS-PAGE separation of Human NKG2D ligand 3:
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 20 mM Tris buffer, 50 mM NaCl, 0,1% v/v amisoft CS-22, pH 7.5.

## Reconstitution

Add 200 µl of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

## Shipping

At temperature 2 - 8°C. 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.


| | | | | | |
|---|---|---|---|---|---|
| HEADQUARTERS:<br>BioVendor Laboratorní medicína, a.s. | Karasek 1767/1 | 621 00 Brno<br>CZECH REPUBLIC | Phone: +420-549-124-185<br>Fax: +420-549-211-460 | E-mail:<br><br>Web: | info@biovendor.com<br>sales@biovendor.com<br>www.biovendor.com |
| AUSTRIA:<br>BioVendor GesmbH | Nußdorfer Straße 20/10 | 1090 Vienna<br>AUSTRIA | Phone: +43-1-89090-25<br>Fax: +43-1-89090-2515 | E-mail: | infoAustria@biovendor.com |
| GERMANY, SWITZERLAND:<br>BioVendor GmbH | Otto-Hahn-Straße 16 | 34123 Kassel<br>GERMANY | Phone: +49-6221-433-9100<br>Fax: +49-6221-433-9111 | E-mail: | infoEU@biovendor.com |
| USA, CANADA AND MEXICO:<br>BioVendor LLC | 128 Bingham Rd.<br>Suite 1300 | Asheville, NC 28806<br>USA | Phone: +1-828-575-9250<br>+1-800-404-7807<br>Fax: +1-828-575-9251 | E-mail: | infoUSA@biovendor.com |