ULBP5 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Retinoic acid early transcript 1G protein, RAET1G

Cat. No.:
RD172315100 (0.1 mg)

Description

Total 198 AA. MW: 22.43 kDa (calculated). N-Terminal His-tag (10 extra AA). UniprotKB acc.no. Q6H3X3 isoform 2. Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

ULBP5 acts as a ligand for the NKG2D receptor on the surface of NK cells. ULBP ligands are produced by virally infected cells and tumours. Stimulation of NKG2D contributes to anti-tumour and anti-viral immune responses of NK cells. ULBP5 is expressed in two variants, as a membrane and soluble isoform.

Research topic

Immune Response, Infection and Inflammation

Amino Acid Sequence

MKHHHHHHAS GLADPHSLCY DITVIPKFRP GPRWCAVQGQ VDEKTFLHYD CGSKTVTPVS PLGKKLNVTT AWKAQNPVLR EVVDILTEQL LDIQLENYIP KEPLTLQARM SCEQKAEGHG SGSWQLSFDG QIFLLFDSEN RMWTTVHPGA RKMKEKWEND KDMTMSFHYI SMGDCTGWLE DFLMGMDSTL EPSAGGTV

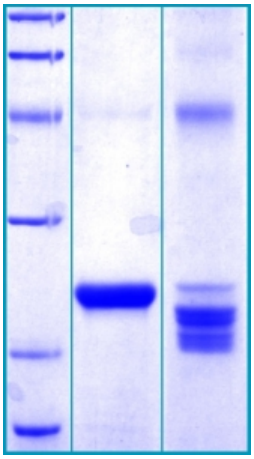
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >95%

SDS-PAGE gel



14% SDS-PAGE separation of Human ULBP5:

1. M.W. marker - 97, 66, 45, 31, 21, 14 kDa
2. reduced and boiled sample, 2.5µg / lane
3. non-reduced and non-boiled sample, 2.5µg / lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM Tris buffer, 50mM NaCl, pH 7.5

Reconstitution

Add 200ul of deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the 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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