

PRODUCT DATASHEET

CD5 Antigen-Like Human E. coli

Cat. No.: RD172328100

Type: Recombinant protein

Size: 0.1 mg

Source: E. coli

Species: Human

Description

Total 337 AA. MW: 37.2 kDa (calculated). UniProtKB acc.no. O43866 (Ser20-Gly347). N-terminal His-tag (9 extra AA). Protein identity confirmed by LC-MS/MS.

Other names

Apoptosis inhibitor expressed by macrophages, CT-2, IgM-associated peptide, SP-alpha, CD5L, API6, UNQ203/PRO229, AIM

Introduction to the molecule

CD5 antigen-like takes part in regulation of the immune system. It acts as an inhibitor of apoptosis. It is expressed in spleen, lymph node, thymus and bone marrow.

Research topic

Animal studies

Amino Acid sequence

MKHHHHHHAS PSGVRLVGGL HRCEGRVEVE QKGQWGTVCD DGWDIKDVAV LCRELGCGAA SGTPSGILYE PPAEKEQKVL IQSVSCTGTE DTLAQCEQEE VYDCSHDEDA GASCENPESS FSPVPEGVRL ADGPGHCKGR VEVKHQNQWY TVCQTGWSLR AAKVVCRQLG CGRAVLTQKR CNKHAYGRKP IWLSQMSCSG REATLQDCPS GPWGKNTCNH DEDTWVECED PFDLRLVGGD NLCSGRLEVL HKGVVWGSVCD DNWGEKEDQV VCKQLGCGKS LSPSFRDRKC YGPGVGRIWL DNVRCSGEEQ SLEQCQHRFW GFHDCTHQED VAVICSG

Purity

Purity as determined by densitometric image analysis: >95%

Endotoxin

< 0.1 EU/μg

Formulation:

Filtered (0.4 μm) and lyophilized from 0.5 mg/mL solution in 50 mM Tris buffer, pH 8.6

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

Storage, Stability/Shelf Life

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

Quality control

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

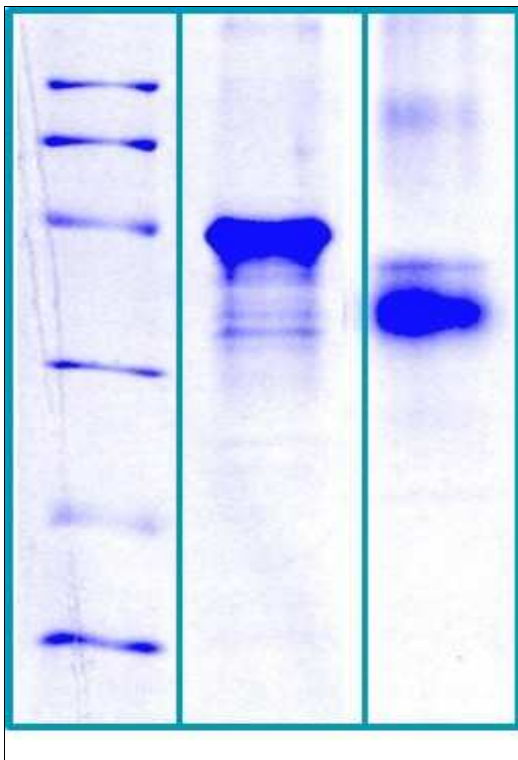
LAL to determine quantity of endotoxin.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.



14 % SDS-PAGE separation of Human CD5 antigen-like :

1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and boiled sample, 2.5 $\mu\text{g}/\text{lane}$
3. non-reduced and non-boiled sample, 2.5 $\mu\text{g}/\text{lane}$