Cytokine-Like Protein 1 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: CYTL1, C4orf4, UNQ1942/PRO4425

Cat. No.:
RD172265100 (0.1 mg)

Description

Total 124 AA. MW: 14.6 kDa (calculated). N-Terminal His-tag (10 extra AA). UniprotKB acc.no. Q9NRR1 (Thr23-Arg136)

Introduction to the Molecule

Cytokine-like protein 1 is a secreted protein. It is expressed in CD34+ cell populations of bone marrow and cord blood which function as hematopoietic stem/progenitor cells. It is not expressed in CD34- cells. Experiments with knock-out mice (Cytl1-/-) suggest that CYTL1 is required for the maintenance of cartilage homeostasis rather than cartilage and bone development, and loss of CYTL1 function is associated with experimental osteoarthritic cartilage destruction in mice.

Research topic

Bone and cartilage metabolism

Amino Acid Sequence

MKHHHHHHAS TPPTCYSRMR ALSQEITRDF NLLQVSEPSE PCVRYLPRLY LDIHNYCVLD KLRDFVASPP CWKVAQVDSL KDKARKLYTI MNSFCRRDLV FLLDDCNALE YPIPVTTVLP DRQR

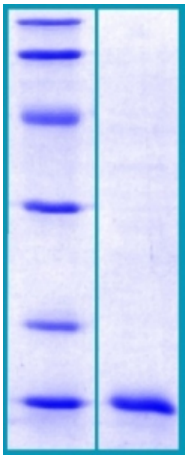
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >95%

SDS-PAGE gel



14% SDS-PAGE separation of CYTL1:
1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and heated 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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