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Cytokine-Like 1, human recombinant (rhuCYTL1)

Catalog No: 99938
Lot No: XXXXX
Source: *E. coli*
Synonyms: Cytokine-like protein 1, Protein C17, CYTL1, C4orf4, C17

Background

Cytokine-like protein 1 (CYTL1) is a secreted protein. CYTL1 is expressed in CD34+ cell populations of bone marrow and cord blood, which function as hematopoietic stem/progenitor cells. However, CYTL1 is not expressed in CD34- cells. Experiments with knock-out mice (Cyt11^{-/-}) propose that CYTL1 is essential for the maintenance of cartilage homeostasis rather than cartilage and bone development. Loss of CYTL1 function is linked with experimental osteoarthritic cartilage destruction in mice.

Description

CYTL1 Human Recombinant, produced in *E. coli*, is a single, non-glycosylated polypeptide chain (23-136 aa) containing 124 amino acids including a 10 aa N-terminal His tag. The total molecular mass is 14.6 kDa (calculated).

Physical Appearance

Filtered, white lyophilized (freeze-dried) powder.

Formulation

CYTL1 was filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20 mM Tris buffer (pH 7.5) and 50 mM NaCl.

Solubility

It is recommended to add 200 µl deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. CYTL1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time. It does not show any change after two weeks at 4°C.

Amino Acid Sequence

MKHHHHHHAS TPPTCYSRMR ALSQEITRDF NLLQVSEPS PCVRYLPRLY LDIHNYCVLD KLRDFVASPP CWKVAQVDSL
KDKARKLYTI MNSFCRRDLV FLLDDCNALE YPIPVTTLVP DRQR

Usage

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