Decorin Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Bone proteoglycan II, PG-S2, PG40, DCN, SLRR1B

Cat. No.:
RD172324100 (0.1 mg)

Description

Total 339 AA. MW: 37.6 kDa (calculated). UniProtKB acc.no. P07585 (Asp31-Lys359). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Decorin influences the rate of fibril formation. It is a secreted protein that binds to collagen and fibronectin in extracellular matrix. Decorin occurs in different glycoforms, substituted with chondroitin sulfate or dermatan sulfate according to the original tissue. Defects in the gene coding for decorin causes corneal dystrophy.

Research topic

Cardiovascular disease, Energy metabolism and body weight regulation, Oncology

Amino Acid Sequence

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MKHHHHHHAS DEASGIGPEV PDDRDFEPSL GPVCPFRCQC HLRVVQCSDL GLDKVPKDLP PDTTLLDLQN NKITEIKDGD
FKNLKNLHAL ILVNNKISKV SPGAFTPLVK LERLYLSKNQ LKELPEKMPK TLQELRAHEN EITKVRKVTF NGLNQMIVIE
LGTNPLKSSG IENGAFQGMK KLSYIRIADT NITSIPQGLP PSLTELHLDG NKISRVDAAS LKGLNNLAKL GLSFNSISAV
DNGSLANTPH LRELHLDNNK LTRVPGGLAE HKYIQVVYLH NNNISVVGSS DFCPPGHNTK KASYSGVSLF SNPVQYWEIQ
PSTFRCVYVR SAIQLGNYK
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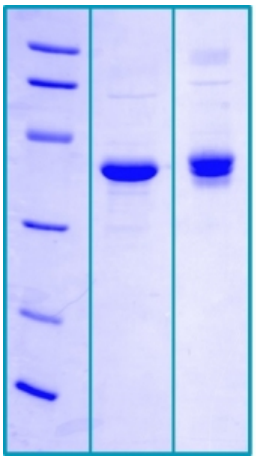
Source

E. coli

Purity

Purity as determined by densitometric image analysis: > 90 %

SDS-PAGE gel



14% SDS-PAGE separation of Hu Decorin:

1. M.W. marker - 97, 66, 45, 31, 21, 14 kDa

2. reduced and heated sample, 2.5µg/lane

3. non-reduced and non-heated sample, 2.5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.03M Acetate buffer pH 4.0

Reconstitution

Add 0.1 M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited. 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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