Recombinant Human Decorin/PG-S2/DCN Protein

Catalog No.: RP01344

Sequence Information

Species
Human

Gene ID
1634

Swiss Prot
P07585-1

Tags
C-His

Synonyms
DCN,CSCD,DSPG2,PG40,PGII,PGS2, SLRR1B,decorin,Decorin

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
38.83 kDa

Observed MW
45 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Decorin is a ubiquitous small cellular or pericellular matrix proteoglycan and is closely related in structure to biglycan protein. It belongs to the small leucine-rich proteoglycan (SLRP) family and consists of a core protein and a covalently linked glycosaminoglycan chain which is either chondroitin sulfate (CS) or dermatan sulfate (DS). As a component of connective tissue, decorin interacts with several extracellular matrix components, such as type I collagen and fibronectin, and plays a role in matrix assembly. Decorin resides in the tumor microenvironment and affects the biology of various types of cancer by downregulating the activity of several receptors involved in cell growth and survival. Decorin binds to and modulates the signaling of the epidermal growth factor receptor and other members of the ErbB family of receptor tyrosine kinases. It exerts its antitumor activity by a dual mechanism: via inhibition of these key receptors through their physical downregulation coupled with attenuation of their signaling, and by binding to and sequestering TGFbeta. Decorin also modulates the insulin-like growth factor receptor and the low-density lipoprotein receptor-related protein 1, which indirectly affects the TGFbeta receptor pathway. Decorin plays significant roles in tissue development and assembly, as well as playing both direct and indirect signaling roles.

Basic Information

Description
Recombinant Human Decorin/PG-S2/DCN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Lys359) of human Decorin/DCN/CSCD (Accession #NP_598010.1) fused with 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human DCN at 1 μg/mL (100 μL/well) can bind DCN Rabbit pAb with a linear range of 0.5-141 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

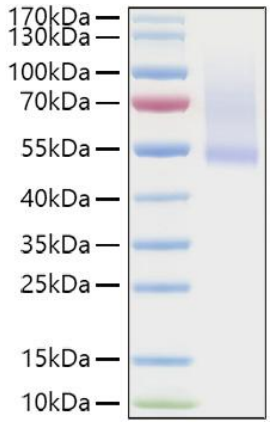
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

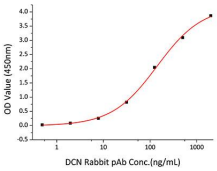
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Validation Data



Recombinant Human Decorin/PG-S2/DCN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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