
Product Data Sheet

Product Name: DCN Human
 Cat. No.: GP23299
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Decorin; Bone proteoglycan II; PG-S2; PG40; DCN; SLRR1B; CSCD; PGII; PGS2; DSPG2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDEASGIGPE VPDDRDFEPS LGPVCDFRCQ CHLRVVQCSDLGLDKVPKDL PPDTLLDLQ NNKITEIKDG DFKNLKLNHA LILVNNKISK VSPGAFTPLVKLERLYLSKN QLKELPEKMP KTLQELRAHE NEITKVRKVT FNGLNQMIVI ELGTNPLKSS GIENGAFQGM KKLSYIRIAD TNITSIPQGL PPSLTEHLHD GNKISRVDAA SLKGLNNLAKLGLSFNSISA VDNGSLANTP HLRELHLDNN KLTRVPGGLA EHKEYIQVVYL HNNNISVVGSSDFCPPGHNT KKASYSGVSL FSNPVQYWEI QPSTFRCVYV RSAIQLGNYK.		
Formulation	DCN protein solution (0.25mg/ml) containing 20mM Tris pH 8.0 and 10% glycerol.		

Introduction

Decorin (DCN) is a small cellular or pericellular matrix proteoglycan which is closely related in structure to biglycan protein. Decorin is a secreted protein which binds to collagen and fibronectin in extracellular matrix. Decorin appears in different glycoforms, substituted with chondroitin sulfate or dermatan sulfate consistent with the original tissue. DCN contains one attached glycosaminoglycan chain. Decorin influences the rate of fibril formation. Decorin is capable of suppressing the growth of various tumor cell lines. DCN gene defects cause corneal dystrophy. The DCN gene is a candidate gene for Marfan syndrome.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DCN Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 350 amino acids (31-359 a.a) and having a molecular mass of 38.6kDa. DCN is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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