
Product Data Sheet

Product Name: DCN Mouse
 Cat. No.: GP23301
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Decorin; Bone proteoglycan II; PG-S2; PG40; DCN.		
Amino Acid Sequence	GPFEQRGLFD FMLEDEASGI IPYDPDNPLI SMCPYRCQCH LRVVQCSDLG LDKVPWDFPP DTTLLDLQNN KITEIKEGAF KNLKDLHTLI LVNKNKISKIS PEAFKPLVKL ERLYLSKNQL KELPEKMPRT LQELRVHENE ITKLRKSDFN GLNNVLVIEL GGNPLKNSGI ENGAFAQGLKS LSYIRISDTN ITAIPQGLPT SLTEVHLDGN KITKVDAPSL KGLINLSKLG LSFNSITVME NGSLANVPHL RELHLDNNKL LRVPAQLAQH KYIQVVYLHN NNISAVGQND FCRAGHPSRK ASYSAVSLYG NPVRYWEIFP NTFRCVYVRS AIQLGNYKHH HHHH		
Formulation	DCN protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4), 30% glycerol and 0.1mM PMSF.		

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 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.

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

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Background

DCN produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (17-354 a.a.) and fused to a 6 aa His Tag at C-terminus containing a total of 344 amino acids and having a molecular mass of 38.8kDa. DCN shows multiple bands between 40-57kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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