Decorin/PGS2 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74202
Synonyms:	Decorin; Bone proteoglycan II; PG-S2; PG40; DCN; SLRR1B
Species:	Rat
Source:	HEK293
Accession:	Q01129 (G17-K354)
Gene ID:	29139
Molecular Weight:	Approximately 43 kDa due to the glycosylation

PROPERTIES

AA Sequence	G P F E Q R G L F D F M L E D E A S G I I P Y D P D N P L I S M C P Y R C Q C H L R V V Q C S D L G L D K V P W E F P P D T T L L D L Q N N K I T E I K E G A F K N L K D L H T L I L V N N K I S K I S P E A F K P L V K L E R L Y L S K N H L K E L P E K L P K T L Q E L R L H D N E I T K L K K S V F N G L N R M I V I E L G G N P L K N S G I E N G A L Q G M K G L G Y I R I S D T N I T A I P Q G L P T S I S E L H L D G N K I A K V D A A S L K G M S N L S K L G L S F N S I T V V E N G S L A N V P H L R E L H L D N N K L L R V P A G L A Q H K Y V Q V V Y L H N N N I S E V G Q H D F C L P S Y Q T R K T S Y T A V S L Y S N P V R Y W Q I H P H T F R C V F G R S T I Q L G N Y K
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Decorin/PGS2 Protein is implicated in influencing the rate of fibril formation, suggesting a role in the modulation of extracellular matrix dynamics. Additionally, it may play a part in the dilatation of the rat cervix. The protein exhibits a versatile binding profile, interacting with type I and type II collagen, fibronectin, and TGF-beta, indicating its involvement in

diverse cellular processes. Furthermore, Decorin forms a ternary complex with MFAP2 and ELN, highlighting its engagement in complex molecular interactions within the extracellular environment. Its interaction with DPT further underscores its involvement in the regulation of structural and signaling components. A comprehensive exploration of Decorin's functions and its interplay with various molecular partners could provide valuable insights into its multifaceted role in extracellular matrix biology and tissue physiology.

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