Biglycan Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P75477
Synonyms:	Biglycan; BGN; SLRR1A
Species:	Mouse
Source:	HEK293
Accession:	P28653 (D38-K369)
Gene ID:	12111
Molecular Weight:	Approximately 75-100 kDa

PROPERTIES

AA Sequence	D E E A S G S D T T S G V P D L D S V T P T F S A M C P F G C H C H L R V V Q C S D L G L K T V P K E I S P D T T L L D L Q N N D I S E L R K D D F K G L Q H L Y A L V L V N N K I S K I H E K A F S P L R K L Q K L Y I S K N H L V E I P P N L P S S L V E L R I H D N R I R K V P K G V F S G L R N M N C I E M G G N P L E N S G F E P G A F D G L K L N Y L R I S E A K L T G I P K D L P E T L N E L H L D H N K I Q A I E L E D L L R Y S K L Y R L G L G H N Q I R M I E N G S L S F L P T L R E L H L D N N K L S R V P A G L P D L K L L Q V V Y L H S N N I T K V G I N D F C P M G F G V K R A Y Y N G I S L F N N P V P Y W E V Q P A T F R C V T D R L A I Q F G N Y K K
Biological Activity	Measured by its ability to inhibit the cell growth of mouse NIH-3T3 mouse embryonic fibroblast adipose-like cells. The ED_{50} for this effect is 0.5711 μg/mL, corresponding to a specific activity is 1.751×10^3units/mg.
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	Biglycan Protein emerges as a potential participant in collagen fiber assembly, suggesting a role in the intricate processes of organizing and structuring collagen networks. Its involvement in collagen fiber assembly implies a crucial function in the formation and maintenance of the extracellular matrix. As an essential component of connective tissues, Biglycan may contribute to the stability and integrity of collagen fibers. Elucidating the specific mechanisms through which Biglycan participates in collagen assembly could provide valuable insights into its role in tissue development, repair, and homeostasis. Further exploration of Biglycan's functions may deepen our understanding of its implications in connective tissue biology and its potential significance in various physiological contexts.

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