

Biglycan Protein, Human (HEK293, His)

Cat. No.:	HY-P7663
Synonyms:	rHuBiglycan, His; Biglycan; BGN; SLRR1A
Species:	Human
Source:	HEK293
Accession:	P21810 (E20-K368)
Gene ID:	633
Molecular Weight:	40-90 kDa

PROPERTIES

AA Sequence	<pre> E Q R G F W D F T L D D G P F M M N D E E A S G A D T S G V L D P D S V T P T Y S A M C P F G C H C H L R V V Q C S D L G L K S 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 A R V P S G L P D L K L L Q V V Y L H S N N I T K V G V 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 H H H H H H </pre>
Biological Activity	Measured by its ability to inhibit the cell growth of NIH-3T3 cells. The ED ₅₀ this effect is 1.427 µg/mL, corresponding to a specific activity is 700.7708 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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, a member of the family of small leucine-rich proteoglycans, is composed of glycosaminoglycan side chains covalently bound to a central core protein. It resides at the cell surface or in the pericellular space of various tissues. Biglycan has been implicated in the development and progression of human cancers^[2].

REFERENCES

- [1]. Wang B, et al. Biglycan expression correlates with aggressiveness and poor prognosis of gastric cancer. *Exp Biol Med (Maywood)*. 2011;236(11):1247-1253.
- [2]. Poluzzi C, et al. Biglycan evokes autophagy in macrophages via a novel CD44/Toll-like receptor 4 signaling axis in ischemia/reperfusion injury. *Kidney Int*. 2019;95(3):540-562.
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Caution: Product has not been fully validated for medical applications. For research use only.

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