

## 32-7351: Recombinant Human Biglycan/BGN (C-6His)

**Gene :** BGN  
**Gene ID :** 633  
**Uniprot ID :** P21810

### Description

Source: Human Cells.  
MW :40.47kD.

Recombinant Human Biglycan is produced by our Mammalian expression system and the target gene encoding Glu20-Lys368 is expressed with a 6His tag at the C-terminus. Biglycan is a 200-350 kD proteoglycan consisting of a 45 kD core protein and two chondroitin/dermatan sulfate glycosaminoglycan chains. Biglycan binds to TGF- beta. It also binds to collagen type I in low ionic strength (less than 3 mM phosphate) buffer. At higher ionic strengths, Biglycan does not bind to collagen type I. It enhances the inhibition effect of TGF- beta on osteoclast proliferation at a concentration of 4-20 mg/ml. It also prevents the attachment of CHO cells to fibronectin, with a 50% inhibition at 17-21 mg/ml.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** EQRGFWDFTLDDGPFMMNDEEASGADTSGVLDPDSVPTYSAMCPFGCHCHLRVVQCSDLGLKSVKPEISPD  
TLLDLQNNDISLRKDDFKGLQHLYALVLVNNKISKIHEKAFSPLRKLQKLYISKNHLEIPPNNLPSSLVELRIHDN  
RIRKVPKGVFSGLRNMNCIEMGGNPLENSGFEPGAFDGLKLNLYLRSEAKLTGIPKDLPETLNELHLDHNKIQAIE  
LEDLLRYSKLYRLGLGHNQIRMIENGSLFPLTLRELHLDNNKLARVPSGLPDLKLLQVVYLHSNNITKVGVNDF  
CPMGFGVKRAYYNGISLFNNPVPYWEVQPATFRCVTDRLAIQFGNYKKVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.