

Recombinant Protein Technical Manual Recombinant Human Biglycan/BGN Protein (His Tag)

RPES3420

Product Data:

Product SKU: RPES3420 Size: 10μg

Species: Human Cells

Uniprot: P21810

Protein Information:

Molecular Mass: 40.5 kDa

AP Molecular Mass: 50 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Biglycan; Bone/Cartilage Proteoglycan I; PG-S1; BGN; SLRR1A

Immunogen Information:

Sequence: Glu20-Lys368

Background:

Biglycan is a 200-350 kD proteoglycan consisting of a 45 kD core protein and two chrondroitin/dermatan sulfate glycosaminoglycan chains. Biglycan binds to TGF-?. 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-? 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.