

Active Recombinant Mouse Bgn Protein (Asp38-Lys369), C-6×His tagged

Cat. No. Bgn-01M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bgn Protein (Asp38-Lys369) with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
Species	Mouse
Source	CHO
ProteinLength	Asp38-Lys369
Description	This gene encodes a small, leucine-rich repeat proteoglycan that plays important roles in bone mineralization and connective tissue metabolism. The encoded preproprotein undergoes post-translational processing during which chondroitin sulfate or dermatan sulfate chains are attached before incorporation into the extracellular matrix. Mice lacking the encoded protein exhibit reduced growth rate and acquire diminished bone mass progressively with age.
Form	Lyophilized
Bio-activity	Measured by its ability to inhibit the cell growth of mouse 3T3-L1 mouse embryonic fibroblast adipose-like cells. The ED50 for this effect is 0.75-3.5 µg/mL.
Molecular Mass	Predicted Molecular Mass: 38 kDa SDS-PAGE: 45-90 kDa, reducing conditions

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N-terminal Sequence Analysis	Asp38
Endotoxin	<0.10 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with silver staining
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 200 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Bgn biglycan [<i>Mus musculus</i> (house mouse)]
Official Symbol	Bgn
Synonyms	Bgn; biglycan; BG; PGI; DSPG1; PG-S1; SLRR1A; biglycan; bone/cartilage proteoglycan I
Gene ID	12111
mRNA Refseq	NM_007542

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Protein Refseq	NP_031568
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UniProt ID	P28653
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