



Recombinant Human Biglycan (BGN)

Product Code	CSB-EP002683HU
Relevance	May be involved in collagen fiber assembly.
Abbreviation	Recombinant Human BGN protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P21810
Alias	Bone/cartilage proteoglycan I PG-S1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DEEASGADTSGVLDPDSVTPTYSAMCPFGCHCHLRVVQCSDLGLKSVPEIS PDTLLDLQNNDISELRKDDFKGLQHLYALVLVNNKISKIHEKAFSPLRKLQKLYI SKNHLVEIPPNLPSSELRIHDNRIRKVPKGVFSGLRNMNCIEMGGNPLENSG FEPGAFDGLKLNLYLRISAKLTGIPKDLPETLNLHLDHNKIQAIELEDLLRYSKL YRLGLGHNQIRMIENGSLFLPTLRELHLDNNKLARVPSGLPDLKLLQVVYLHS NNITKVGVNDFCPMGFGVKRAYYNGISLFNNPVPYWEVQPATFRCVTDRLAIQ FGNYKK
Research Area	Signal Transduction
Source	E.coli
Target Names	BGN
Protein Names	Recommended name: Biglycan Alternative name(s): Bone/cartilage proteoglycan I PG-S1
Expression Region	38-368aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	57.2kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Delve into the world of signal transduction with our premium Recombinant Human BGN protein, an essential component of the extracellular matrix. Biglycan, also known as bone/cartilage proteoglycan I or PG-S1, is a small leucine-rich proteoglycan that plays a pivotal role in regulating cell adhesion, growth, and differentiation. Its involvement in key cellular processes and interactions makes it a valuable protein for researchers exploring signal transduction pathways and related mechanisms.

Our Recombinant Human BGN protein is expressed in *E. coli*, ensuring a high-quality and robust product. It spans the full length of the mature protein, covering the 38-368aa region, retaining the essential functional domains for your experimental needs. The N-terminal 10xHis-SUMO tag and C-terminal Myc tag facilitate efficient protein purification and detection, simplifying your workflow. With a purity greater than 90% as determined by SDS-PAGE, our Recombinant Human BGN protein is provided as a lyophilized powder, offering you a reliable and consistent tool for your signal transduction research projects.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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