

BGN, 38-368aa, Human, His tag, E.coli

Cat.NO.: TP01331

3th Edition

Synonyms:Biglycan preproprotein, DSPG1, PG-S1, PGI, SLRR1A

Description:BGN, also known as biglycan, is a small cellular or pericellular matrix proteoglycan that is closely related in structure to two other small proteoglycans, decorin and fibromodulin. This protein plays a role in assembly of collagen fibrils and muscle regeneration. It interacts with several proteins involved in muscular dystrophy, including alpha-dystroglycan, alpha- and gamma-sarcoglycan and collagen VI, and it is critical for the assembly of the dystrophin-associated protein complex. Recombinant human BGN protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

Molecular Weight:39.5 kDa(352aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMDEEASGADTSGVLDPDSVTPTYSAMCPFGCHCHLRVQCSDLGLKSVPKEISP
DTLLDLQNNDISLRKDDFKGLQHLVALLVNKKISIKIHEKAFSPRLKQKLYISKNHLEIPPNLPSLVELRIHDNRI
RKVPKGVFSGLRNMNCIEMGGNPLENSGFEPGAFDGLKLNLYLRISAKLTGIPKDLPETLNELHLDHNKIQAIELEDL
LRYSKLYRLGLGHNQIRMIENGSLFLPTLRELHLDNNKLARVPSGLPDLKLLQVVYVYLSNNITKVGVNDFCPMGFG
VKRAYYNGISLFPNPVPYWEVQPATFRCVTDRLAIQFGNYKK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.