

For Research Use Only

Recombinant Human Biglycan protein (rFc Tag)



Catalog Number: Eg2972

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Human Biglycan protein Leu17-Lys368 (Accession# P21810) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

633

Accession:

P21810

Predicted Molecular Mass:

65.8 kDa

SDS-PAGE:

68-100 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Biglycan is a member of the small leucine-rich proteoglycan (SLRP) family. It consists of a core protein of 42 kDa containing leucine-rich repeats (LRRs), to which two chondroitin/dermatan sulfate side chains are covalently bound. The tissue-specific chondroitin- or dermatan-sulfate glycosaminoglycan chains of biglycan are attached to amino acid residues at the N-terminus of the core protein. Biglycan is a ubiquitous component of the connective tissue matrix and may act as a signaling molecule. Upregulation of biglycan has been reported in multiple types of solid cancer.

References

- 1.Schaefer L. et al. (2008). J Biol Chem. 283(31):21305-21309.
- 2.Bianco P. et al. (1990). J Histochem Cytochem. 38(11):1549-1563.
- 3.Iozzo RV. (1999). J Biol Chem. 274(27):18843-18846.
- 4.Nastase MV. et al. (2012). J Histochem Cytochem. 60(12):963-975.
- 5.Zhao SF. et al. (2020). Oncol Lett. 19(3):1673-1682.

Synonyms

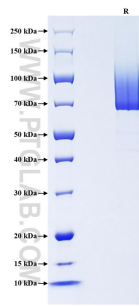
BGN, biglycan, DSPG1, PG S1, PGI

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human Biglycan was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.