FBLN2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FBLN2, Recombinant Protein
Full Product Name	Recombinant Human FBLN2 protein (His tag)
Product Gene Name	FBLN2 recombinant protein
Product Synonym Names	Fibulin-2 (FIBL-2); FBLN2
Sequence	Met1-Leu11 84
Host	HEK293 Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4.
Purity/Purification	>95 % as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	126,573 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (13590625..13679922). Location: 3p25.1
OMIM	135821
3D Structure	ModBase 3D Structure for P98095
Species	Human
Tag	C-His
Protein Construction	A DNA sequence encoding the Human FBLN2 protein (P98095)(Met1-Leu1184) was expressed with a C-His.$
Product Categories/Family for FBLN2 recombinant protein	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FBLN2 recombinant protein	Fibulin 2 is the second largest member of the seven-member fibulin family of extracellular membrane (ECM) glycoproteins. Fibulin-2 consists of 1184 amino acids (aa) with a predicted molecular weight of ~125 kDa. The overall structure is common to fibulins: 3 Anaphylatoxin (AT)-like domains, 11 Epidermal Growth Factor (EGF)?like domains, and a Fibulin-type carboxy-terminal (FC) domain (1-4). Fibulin 2 is considered a Class I fibulin because the 400-residue N-terminus is divided into the Na and Nb sections, with the Na section containing 150-residues and 12 cysteines while the remaining Nb section is cysteine-free (2, 3). The protein is known to form disulfide-linked homodimers, but it can also be secreted as an oligomer (5). Fibulin 2 is highly conserved across species, with the human protein sharing 82% amino acid identity compared to both mouse and rat. Fibulin 2 is considered a multifunctional binding protein due to its association with numerous ECM components, but its specific interactions have yet to be determined (6). Fibulin 2 is localized at the interface between microfibrils and the elastin core and its known interactions include nidogen-1, perlecan, laminin, aggrecan, endostatins, versican, collagen, and tropoelastin (1, 2, 4, 7). It is down-regulated in numerous forms of cancer including breast, colorectal, lung, esophageal, and squamous cell carcinoma, but over-expression has been shown with solid tumors (1, 3, 4). There is also evidence that suggests that Fibulin 2 may play an indirect role in the neurogenesis of adult neural stem cells via interaction with integrins and TGF-beta 1 (8).
Other Notes	Small volumes of FBLN2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for FBLN2 purchase	MBS2571349 is a recombinant protein targeting FBLN2. Also known as Recombinant Human FBLN2 protein (His tag). Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FBLN2. It may not necessarily be applicable to this product.

NCBI GI #	51873053
NCBI GeneID	2199
NCBI Accession #	NP_001004019.1
UniProt Primary Accession #	P98095
UniProt Secondary Accession #	Q8IUI0; Q8IUI1; B7Z9C5
UniProt Related Accession #	P98095
GenBank Nucleotide #	NM_001004019.1
NCBI Official Full Name	fibulin-2 isoform a
NCBI Official Synonym Full Names	fibulin 2
NCBI Official Symbol	FBLN2
UniProt Protein Name	Fibulin-2
Protein Family	Fibulin
UniProt Gene Name	FBLN2
UniProt Synonym Gene Names	FIBL-2
UniProt Entry Name	FBLN2_HUMAN
NCBI Protein Information	fibulin-2; FIBL-2
NCBI Summary for FBLN2	This gene encodes an extracellular matrix protein, which belongs to the fibulin family. This protein binds various extracellular ligands and calcium. It may play a role during organ development, in particular, during the differentiation of heart, skeletal and neuronal structures. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for FBLN2	FBLN2: Its binding to fibronectin and some other ligands is calcium dependent. Belongs to the fibulin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 3p25.1 Cellular Component: extracellular matrix; proteinaceous extracellular matrix; extracellular region; vesicle Molecular Function: extracellular matrix binding; extracellular matrix structural constituent; calcium ion binding Biological Process: extracellular matrix organization and biogenesis
Research Articles on FBLN2	**1.** Two variants in the fibulin2 gene are associated with lower systolic blood pressure and decreased risk of hypertension.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/fbln2/2571349