BCAN Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	BCAN, Recombinant Protein
Full Product Name	Recombinant Human BCAN Protein
Product Gene Name	BCAN recombinant protein
Product Synonym Names	BEHAB; CSPG7; Brevican core protein; Brain-enriched hyaluronan-binding protein; BEHAB; Chondroitin sulfate proteoglycan 7
Sequence	DVLEGDSSED RAFRVRIAGD APLQGVLGGA LTIPCHVHYL RPPPSRRAVL GSPRVKWTFL SRGREAEVLV ARGVRVKVNE AYRFRVALPA YPASLTDVSL ALSELRPNDS GIYRCEVQHG IDDSSDAVEV KVKGVVFLYR EGSARYAFSF SGAQEACARI GAHIATPEQL YAAYLGGYEQ CDAGWLSDQT VRYPIQTPRE ACYGDMDGFP GVRNYGVVDP DDLYDVYCYA EDLNGELFLG DPPEKLTLEE ARAYCQERGA EIATTGQLYA AWDGGLDHCS PGWLADGSVR YPIVTPSQRC GGGLPGVKTL FLFPNQTGFP NKHSRFNVYC FRDSAQPSAI PEASNPASNP ASDGLEAIVT VTETLEELQL PQEATESESR GAIYSIPIME DGGGGSSTPE DPAEAPRTLL EFETQSMVPP TGFSEEEGKA LEEEEKYEDE EEKEEEEEEE EVEDEALWAW PSELSSPGPE ASLPTEPAAQ EKSLSQAPAR AVLQPGASPL PDGESEASRP PRVHGPPTET LPTPRERNLA SPSPSTLVEA REVGEATGGP ELSGVPRGES EETGSSEGAP SLLPATRAPE GTRELEAPSE DNSGRTAPAG TSVQAQPVLP TDSASRGGVA VVPASGDCVP SPCHNGGTCL EEEEGVRCLC LPGYGGDLCD VGLRFCNPGW DAFQGACYKH FSTRRSWEEA ETQCRMYGAH LASISTPEEQ DFINNRYREY QWIGLNDRTI EGDFLWSDGV PLLYENWNPG QPDSYFLSGE NCVVMVWHDQ GQWSDVPCNY HLSYTCKMGL VSCGPPPELP LAQVFGRPRL RYEVDTVLRY RCREGLAQRN LPLIRCQENG RWEAPQISCV PRRPARALHP EEDPEGRQGR LLGRWKALLI PPSSPMPGPH HHHHH
Host	Human cells
Species Reactivity	Human
Form/Format	Lyophilized from a 0.2 muM filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	71,671 Da
OMIM	AF228710 mRNA
3D Structure	ModBase 3D Structure for Q96GW7
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for BCAN recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for BCAN recombinant protein	Recombinant Human BCAN Protein is produced by our mammalian expression system and the target gene encoding Asp23-Pro911 is expressed with a 6His tag at the C-terminus.
Other Notes	Small volumes of BCAN 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 BCAN purchase	MBS8248593 is a recombinant protein targeting BCAN. Also known as Recombinant Human BCAN Protein. Reactive in Human. Host: Human cells.

ADDITIONAL DETAILS

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

NCBI GI #	38372935
NCBI GeneID	63827
NCBI Accession #	NP_068767.3
UniProt Primary Accession #	Q96GW7
UniProt Secondary Accession #	Q5SZ10; Q5T3I5; Q8TBB9; Q9HBK1; Q9HBK4; D3DVC2
UniProt Related Accession #	Q96GW7
GenBank Nucleotide #	NM_021948.4
NCBI Official Full Name	brevican core protein isoform 1
NCBI Official Synonym Full Names	brevican
NCBI Official Symbol	BCAN
NCBI Official Synonym Symbols	BEHAB; CSPG7
UniProt Protein Name	Brevican core protein
UniProt Synonym Protein Names	Brain-enriched hyaluronan-binding protein; BEHAB; Chondroitin sulfate proteoglycan 7
Protein Family	Brevican core protein
UniProt Gene Name	BCAN
UniProt Synonym Gene Names	BEHAB; CSPG7; BEHAB
UniProt Entry Name	PGCB_HUMAN
NCBI Protein Information	brevican core protein
NCBI Summary for BCAN	This gene encodes a member of the lectican family of chondroitin sulfate proteoglycans that is specifically expressed in the central nervous system. This protein is developmentally regulated and may function in the formation of the brain extracellular matrix. This protein is highly expressed in gliomas and may promote the growth and cell motility of brain tumor cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]
UniProt Comments for BCAN	BCAN: May play a role in the terminally differentiating and the adult nervous system during postnatal development. Could stabilize interactions between hyaluronan (HA) and brain proteoglycans. Belongs to the aggrecan/versican proteoglycan family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, GPI anchor; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1q31 Cellular Component: extracellular region; Golgi lumen; lysosomal lumen; proteinaceous extracellular matrix Molecular Function: extracellular matrix structural constituent; hyaluronic acid binding Biological Process: cell adhesion; central nervous system development; chondroitin sulfate biosynthetic process; chondroitin sulfate catabolic process; dermatan sulfate biosynthetic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; glycosaminoglycan metabolic process; skeletal development
Research Articles on BCAN	**1.** Data indicate that median methylation levels of BCAN, HOXD1, KCTD8, KLF11, NXPH1, POU4F1, SIM1, and TCF7L1 were >/=30% higher than in normal samples, representing potential biomarkers for tumor diagnosis.

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