

## BCAN Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7676
<b>Synonyms:</b>	rHuBCAN, His; Brevican Core Protein; BCAN; BEHAB;
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q96GW7 (D23-P911)
<b>Gene ID:</b>	63827
<b>Molecular Weight:</b>	75-150 kDa

### PROPERTIES

#### AA Sequence

DVLEGDSSSED	RAFRVRIAGD	APLQGVLLGGA	LTIPCHVHYL
RPPPSRRAVL	GSPRVKWTFL	SRGREAEVLV	ARGVRVKVNE
AYRFRVALPA	YPASLTDVSL	ALSELRPNDS	GIYRCEVQHG
IDDSSDAVEV	KVKGVVFLYR	EGSARYAFSF	SGAQEACARI
GAHIATPEQL	YAAYLGGYEQ	CDAGWLSDQT	VRYPPIQTPRE
ACYGDMDGFP	GVRNYGVVDP	DDLVDVYCYA	EDLNGELFLG
DPPEKLTLEE	ARAYCQERGA	EIATTGQLYA	AWDGGLDHCS
PGWLADGSVR	YPIVTPSQRC	GGGLPGVKTL	FLFPNQTGF
NKHSRFNVYC	FRDSAQPSAI	PEASNPASNP	ASDGLEAIVT
VTETLEELQL	PQEATESESR	GAIYSIPIME	DGGGGSSTPE
DPAEAPRTLL	EFETQSMVPP	TGFSEEEGKA	LEEEEEKYED
EEKEEEEEEE	EVEDEALWAW	PSELSSPGPE	ASLPTEPAAQ
EESLSQAPAR	AVLQPGASPL	PDGESEASRP	PRVHGPPTET
LPTPRERNLA	SPSPSTLVEA	REVGEATGGP	ELSGVPRGES
EETGSSEGAP	SLLPATRAPE	GTRELEAPSE	DNSGRTAPAG
TSVQAQPVL	TDSASRGGVA	VVPASGDCVP	SPCHNGGTCL
EEEEGVRCCL	LPGYGGDLCD	VGLRFCNPGW	DAFQGACYKH
FSTRRSWEEA	ETQCRMYGAAH	LASISTPEEQ	DFINNRYREY
QWIGLNDRTI	EGDFLWSDGV	PLLYENWNP	QPDSYFLSGE
NCVVMVWHDQ	GQWSDVPCNY	HLSYTCKMGL	VSCGPPPELP
LAQVFGRPRL	RYEVDTVLRY	RCREGLAQRN	LPLIRCQENG
RWEAPQISCV	PRRPARALHP	EEDPEGRQGR	LLGRWKALLI
PPSSPMPGPH	HHHHH		

**Appearance** Lyophilized powder.

**Formulation** Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.4.

**Endotoxin Level** <1 EU/μg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH<sub>2</sub>O. For long term storage it is

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	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

Brevican is a member of the aggrecan/versican family of proteoglycans, containing a hyaluronic acid-binding domain in its N-terminus and a lectin-like domain in its C-terminus. Brevican has the smallest core protein among this family and is one of the most abundant chondroitin sulfate proteoglycans in the adult brain<sup>[2]</sup>.

## REFERENCES

- [1]. Yamada H, et al. cDNA cloning and the identification of an aggrecanase-like cleavage site in rat brevican. *Biochem Biophys Res Commun*. 1995;216(3):957-963.
- [2]. Yamaguchi Y. Brevican: a major proteoglycan in adult brain. *Perspect Dev Neurobiol*. 1996;3(4):307-317.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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