

Brorin/VWC2 Protein, Human (HEK293, His)

Cat. No.:	HY-P77506
Synonyms:	Brorin; Brain-specific chordin-like protein; UNQ739/PRO1434
Species:	Human
Source:	HEK293
Accession:	Q2TAL6 (S28-M325)
Gene ID:	375567
Molecular Weight:	Approximately 44 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> S P S I P L E K L A Q A P E Q P G Q E K R E H A S R D G P G R V N E L G R P A R D E G G S G R D W K S K S G R G L A G R E P W S K L K Q A W V S Q G G G A K A G D L Q V R P R G D T P Q A E A L A A A A Q D A I G P E L A P T P E P P E E Y V Y P D Y R G K G C V D E S G F V Y A I G E K F A P G P S A C P C L C T E E G P L C A Q P E C P R L H P R C I H V D T S Q C C P Q C K E R K N Y C E F R G K T Y Q T L E E F V V S P C E R C R C E A N G E V L C T V S A C P Q T E C V D P V Y E P D Q C C P I C K N G P N C F A E T A V I P A G R E V K T D E C T I C H C T Y E E G T W R I E R Q A M C T R H E C R Q M </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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 ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Brorin/VWC2 Protein, a bone morphogenetic protein (BMP) antagonist, is implicated in neural development and functions as a promoter of cell adhesion. It is peripherally associated with the α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor (AMPA) complex, a critical player in synaptic transmission. The AMPA complex consists of an inner core comprising pore-forming GluA/GRIA proteins and major auxiliary subunits arranged in a twofold symmetry. Brorin/VWC2,
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serving as one of the peripherally associated constituents, contributes to the intricate architecture of the AMPAR complex. This complex includes various proteins like CNIH2, CNIH3, CACNG2, CACNG3, CACNG4, CACNG8, GSG1L, PRRT1, PRRT2, CKAMP44/SHISA9, FRRS1L, and NRN1, among others. Together, these proteins form a platform that regulates the gating, pharmacology, biogenesis, and protein processing of the AMPAR complex, thereby influencing synaptic function and plasticity.

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

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