

CABP5 Protein, Human (His)

Cat. No.:	HY-P76754
Synonyms:	Calcium-binding protein 5; CABP5; CABP3
Species:	Human
Source:	E. coli
Accession:	Q9NP86 (M1-R173)
Gene ID:	56344
Molecular Weight:	Approximately 19 kDa

PROPERTIES

AA Sequence	<p> M Q F P M G P A C I F L R K G I A E K Q R E R P L G Q D E I E E L R E A F L E F D K D R D G F I S C K D L G N L M R T M G Y M P T E M E L I E L G Q Q I R M N L G G R V D F D D F V E L M T P K L L A E T A G M I G V Q E M R D A F K E F D T N G D G E I T L V E L Q Q A M Q R L L G E R L T P R E I S E V V R E A D V N G D G T V D F E E F V K M M S R </p>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of sterile 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween 80.
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.
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	<p>CABP5 protein functions as an inhibitor, modulating the calcium-dependent inactivation of L-type calcium channels and shifting the voltage dependence of activation to more depolarized membrane potentials. It is implicated in the transmission of light signals and may positively regulate neurotransmitter vesicle endocytosis and exocytosis in a salt-dependent manner. Additionally, CABP5 may contribute to the extension and network organization of neurites. The protein interacts with CACNA1C in a calcium-dependent manner and forms associations with STXBP1 and MYO6.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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