NPTX1 Protein, Human (HEK293, His)

Cat. No.:	HY-P71169
Synonyms:	Neuronal pentraxin-1; NPTX1; NP1
Species:	Human
Source:	HEK293
Accession:	Q15818 (Q23-N432)
Gene ID:	4884
Molecular Weight:	50-55 kDa

PROPERTIES

AA Sequence	Q D F G P T R F I C T S V P V D A D M C A A S V A A G G A E E L R S S V L Q L R E T V L Q Q K E T I L S Q K E T I R E L T A K L G R C E S Q S T L D P G A G E A R A G G G R K Q P G S G K N T M G D L S R T P A A E T L S Q L G Q T L Q S L K T R L E N L E Q Y S R L N S S S Q T N S L K D L L Q S K I D E L E R Q V L S R V N T L E E G K G G P R N D T E E R V K I E T A L T S L H Q R I S E L E K G Q K D N R P G D K F Q L T F P L R T N Y M Y A K V K K S L P E M Y A F T V C M W L K S S A T P G V G T P F S Y A V P G Q A N E L V L I E W G N N P M E I L I N D K V A K L P F V I N D G K W H H I C V T W T T R D G V W E A Y Q D G T Q G G S G E N L A P Y H P I K P Q G V L V L G Q E Q D T L G G G F D A T Q A F V G E L A H F N I W D R K L T P G E V Y N L A T C S T K A L S G N V I A W A E S H I E I Y G G A T K W T F E A C R Q I N
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS,1 mM EDTA, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	NPTX1 Protein emerges as a potential mediator in synaptic processes, suggesting involvement in either the uptake of

synaptic material during synapse remodeling or the synaptic clustering of AMPA glutamate receptors at specific excitatory synapses. Its implication in these processes points to a role in the dynamic regulation of synaptic structure and function. Elucidating the specific mechanisms through which NPTX1 participates in synapse remodeling and AMPA receptor clustering could provide valuable insights into its role in synaptic plasticity and neurotransmission. Further exploration of NPTX1's functions may deepen our understanding of its specific implications in various neuronal processes and its potential significance in maintaining synaptic integrity and functionality.

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