NPTXR Protein, Human (HEK293, His)

Cat. No.:	HY-P76522
Synonyms:	Neuronal pentraxin receptor; NPTXR; NPR
Species:	Human
Source:	HEK293
Accession:	O95502 (A24-A500)
Gene ID:	23467
Molecular Weight:	Approximately 55-75 kDa due to the glycosylation

PROPERTIES

AA Sequence	A S V P L A A S P A R A L P G G A D N A S V A S G A A A S P G P Q R S L S A L H G A G G S A G P P A L P G A P A A S A H P L P P G P L F S R F L C T P L A A A C P S G A Q Q G D A A G A A P G E R E E L L L L Q S T A E Q L R Q T A L Q Q E A R I R A D Q D T I R E L T G K L G R C E S G L P R G L Q G A G P R R D T M A D G P W D S P A L I L E L E D A V R A L R D R I D R L E Q E L P A R V N L S A A P A P V S A V P T G L H S K M D Q L E G Q L L A Q V L A L E K E R V A L S H S S R R Q R Q E V E K E L D V L Q G R V A E L E H G S S A Y S P P D A F K I S I P I R N N Y M Y A R V R K A L P E L Y A F T A C M W L R S R S S G T G Q G T P F S Y S V P G Q A N E I V L L E A G H E P M E L L I N D K V A Q L P L S L K D N G W H H I C I A W T T R D G L W S A Y Q D G E L Q G S G E N L A A W H P I K P H G I L I L G Q E Q D T L G G R F D A T Q A F V G D I A Q F N L W D H A L T P A Q V L G I A N C T A P L L G N V L P W E D K L V E A F G G A T K A A F D V C K G R A K A
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of U87 human glioblastoma/astrocytoma cells. The ED_{50} for this effect is 0.1499 μg/mL, corresponding to a specific activity is 6.67×10^3units/mg.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	NPTXR Protein emerges as a potential mediator in synaptic processes, suggesting its involvement in either the uptake of synaptic material during synapse remodeling or the synaptic clustering of AMPA glutamate receptors at specific excitatory synapses. These roles implicate NPTXR in the dynamic regulation of synaptic structure and function. Elucidating the precise mechanisms through which NPTXR participates in synapse remodeling and AMPA receptor clustering could offer valuable insights into its contributions to synaptic plasticity and neurotransmission. Further exploration of NPTXR'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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