NRXN3/Neurexin-3 Protein, Human (HEK293, His)

Cat. No.:	HY-P75946
Synonyms:	Neurexin-3-beta; Neurexin III-beta; NRXN3-CTF; NRXN3; KIAA0743
Species:	Human
Source:	HEK293
Accession:	Q9HDB5-1 (S36-L357)
Gene ID:	9369
Molecular Weight:	Approximately 50-70 kDa due to the glycosylation

PROPERTIES

AA Sequence	S S N V A S S S S T S S S P G S H S Q H E H H F H G S K H H S V P I S I Y R S P V S L R G G H A G A T Y I F G K S G G L I L Y T W P A N D R P S T R S D R L A V G F S T T V K D G I L V R I D S A P G L G D F L Q L H I E Q G K I G V V F N I G T V D I S I K E E R T P V N D G K Y H V V R F T R N G G N A T L Q V D N W P V N E H Y P T G R Q L T I F N T Q A Q I A I G G K D K G R L F Q G Q L S G L Y Y D G L K V L N M A A E N N P N I K I N G S V R L V G E V P S I L G T T Q T T S M P P E M S T T V M E T T T T M A T T T T R K N R S T A S I Q P T S D D L V S S A E C S S D D E D F V E C E P S T G G E L V I P L L V E D P L A T P P I A T R A P S I T L
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. When 5×10^4 cells/well are added to NRXN3 coated plates (0.8 μg/mL and 100 μL/well), approximately 46.72% will adhere specifically after 60 minutes at 37°C.
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. 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	NRXN3 encodes a member of a family of proteins that function in the nervous system as receptors and cell adhesion molecules. Extensive alternative splicing and the use of alternative promoters results in multiple transcript variants and protein isoforms for this gene, but the full-length nature of many of these variants has not been determined. Transcripts that initiate from an upstream promoter encode alpha isoforms, which contain epidermal growth factor-like (EGF-like) sequences and laminin G domains. Transcripts initiating from the downstream promoter encode beta isoforms, which lack EGF-like sequences. Genetic variation at this locus has been associated with a range of behavioral phenotypes, including alcohol dependence and autism spectrum disorder[1][2][3][4][5].

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