Kilon/NEGR1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75934
Synonyms:	Neuronal growth regulator 1; Kindred of IgLON; Kilon; Neurotractin; Kiaa3001; Ntra
Species:	Mouse
Source:	HEK293
Accession:	Q80Z24/NP_001034183.1 (V32-G318)
Gene ID:	320840
Molecular Weight:	Approximately 43-55 kDa due to the glycosylation

PROPERTIES

AA Sequence	V D F P W A A V D N M L V R K G D T A V L R C Y L E D G A S K G A W L N R S S I I F A G G D K W S V D P R V S I S T L N K R D Y S L Q I Q N V D V T D D G P Y T C S V Q T Q H T P R T M Q V H L T V Q V P P K I Y D I S N D M T I N E G T N V T L T C L A T G K P E P V I S W R H I S P S A K P F E N G Q Y L D I Y G I T R D Q A G E Y E C S A E N D V S F P D V K K V R V I V N F A P T I Q E I K S G T V T P G R S G L I R C E G A G V P P P A F E W Y K G E K R L F N G Q Q G I I I Q N F S T R S I L T V T N V T Q E H F G N Y T C V A A N K L G T T N A S L P L N P P S T A Q Y G I T G
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	Kilon/NEGR1 Protein emerges as a potential participant in cell adhesion, suggesting a role in mediating crucial interactions for cellular processes. Additionally, its potential function as a trans-neural growth-promoting factor highlights its dynamic role in facilitating regenerative axon sprouting in the mammalian brain. The proposed involvement of Kilon/NEGR1 in regenerative processes implies its significance in promoting axon growth, particularly in the context of neural regeneration

within the brain. Exploring the specific mechanisms through which Kilon/NEGR1 contributes to cell adhesion and facilitates regenerative axon sprouting may offer valuable insights into its role in neural development and regeneration. Further investigation into Kilon/NEGR1's functions could deepen our understanding of its potential implications in neuronal plasticity and regenerative processes in the mammalian brain.

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