

## TrkA Protein, Human (HEK293)

Cat. No.:	HY-P7308
Synonyms:	rHuTrkA; NTRK1; MTC; TRK
Species:	Human
Source:	HEK293
Accession:	P04629-1 (A34-P407)
Gene ID:	4914
Molecular Weight:	65-85 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>A P C P D A C C P H      G S S G L R C T R D      G A L D S L H H L P      G A E N L T E L Y I</p> <p>E N Q Q H L Q H L E      L R D L R G L G E L      R N L T I V K S G L      R F V A P D A F H F</p> <p>T P R L S R L N L S      F N A L E S L S W K      T V Q G L S L Q E L      V L S G N P L H C S</p> <p>C A L R W L Q R W E      E E G L G G V P E Q      K L Q C H G Q G P L      A H M P N A S C G V</p> <p>P T L K V Q V P N A      S V D V G D D V L L      R C Q V E G R G L E      Q A G W I L T E L E</p> <p>Q S A T V M K S G G      L P S L G L T L A N      V T S D L N R K N V      T C</p>
<b>Biological Activity</b>	The ED <sub>50</sub> is <1 µg/mL as measured by TF-1 cells.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Endotoxin Level</b>	<0.2 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Tyrosine kinase receptor A (TrkA) is the high affinity catalytic receptor for the neurotrophin, nerve growth factor (NGF), and mediates the multiple effects of NGF, which include neuronal differentiation and avoidance of programmed cell death. TrkA is originally cloned from a colon tumor; the cancer occurred via a translocation, which results in the activation of the TrkA kinase domain <sup>[1][2]</sup> .
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## REFERENCES

- [1]. Benito-Gutiérrez E, et al. Origin and evolution of the Trk family of neurotrophic receptors. Mol Cell Neurosci. 2006 Feb;31(2):179-92.
- [2]. Lambiase A, et al. Molecular basis for keratoconus: lack of TrkA expression and its transcriptional repression by Sp3. Proc Natl Acad Sci U S A. 2005 Nov 15;102(46):16795-800.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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