

TrkA Protein, Human (HEK293, His)

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| Cat. No.: | HY-P73457 |
| Synonyms: | High affinity nerve growth factor receptor; Trk-A; NTRK1; MTC; TRK |
| Species: | Human |
| Source: | HEK293 |
| Accession: | NP_002520.2 (P194-E413) |
| Gene ID: | 4914 |
| Molecular Weight: | 35-60 kDa |

PROPERTIES

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| AA Sequence | <pre> 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 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 W A E N D V G R A E V S V Q V N V S F P A S V Q L H T A V E M H H W C I P F S V D G Q P A P S L R W L F N G S V L N E T S F I F T E F L E P A A N E T V R H G C L R L N Q P T H V N N G N Y T L L A A N P F G Q A S A S I M A A F M D N P F E F N P E D P I P V S F S P V D T N S T S G D P V E K K D E </pre> |
| Biological Activity | Measured by its ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED ₅₀ for this effect is 0.06643 µg/mL, corresponding to a specific activity is 1.51×10 ⁴ units/mg. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| 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

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| Background | The TrkA Protein, a member of the neurotrophic tyrosine kinase receptor (NTRK) family, encodes a membrane-bound receptor that, upon neurotrophin binding, initiates phosphorylation of itself and members of the MAPK pathway. This kinase's presence facilitates cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been linked to congenital insensitivity to pain, anhidrosis, self-mutilating behavior, cognitive disability, and |
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cancer. Several alternate transcriptional splice variants of this gene have been identified, but only three have been characterized to date. The gene demonstrates biased expression, with higher levels detected in the adrenal (RPKM 3.7), testis (RPKM 1.0), and 10 other tissues, suggesting its potential significance in various physiological contexts across multiple organs.

Caution: Product has not been fully validated for medical applications. For research use only.

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