

TrkA recombinant protein

Recombinant rat TrkA protein

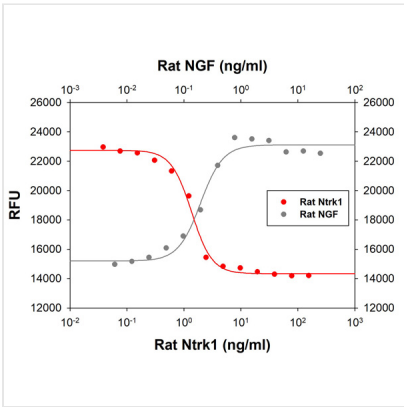
CATALOG # AAA48422	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

TrkA; Recombinant rat TrkA protein; High affinity nerve growth factor receptor; Neurotrophic tyrosine kinase receptor type 1; NTRK-1; NTRK1; Slow nerve growth factor receptor; p140-TrkA; Trk-A; Trk; Trka; TRK1-transforming tyrosine kinase protein; TRKAOncogene TRK; TRKTRK1; tyrosine kinase receptor A; TrkA recombinant protein

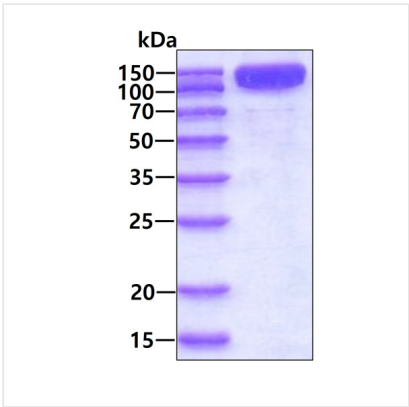
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Concentration	1 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	35-418aa
Sequence	SCRETCCPVG PSGLRCTRAG TLNTRLRLRG AGNLTELYVE NQRDLQRLEF EDLQGLGELR SLTIVKSGLR FVAPDAFHFT PRLSHLNLSS NALESLSWKT VQGLSLQDLT LSGNPLHCSC ALLWLQRWEQ EDLCGVYTQK LQGSGSGDQF LPLGHNNSCG VPSVKIQMPN DSVEVGDDVF LQCQVEGQAL QQADWILTEL EGTATMKKSG DLPSLGLTLV NVTSDLNKKK VTCWAENDVG RAEVSVQVSV SFPASVHLGK AVEQHHCWIP FSVDGQPAPS LRWFFNGSVL NETSFIFTQF LESALTNETM RHGCLRLNQP THVNNNGNYTL LAANPYGQAA ASIMAAFMDN PFEFNPEDPI PVSFSPVDTN STSRDPVEKK DETP
Applicable Applications for TrkA recombinant protein	Bioactivity, SDS-PAGE
Species	Rat
Tag	hIgG-His-Tag
Predicted Nterm	Ser 35
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured by ability to inhibit NGF-induced proliferation assay using TF?1 human erythroleukemic cells in the presence of 0.5ng/ml of rat NGF. The ED50 range <= 5 ng/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



Bioactivity

Rat Ntrk1 in inhibit the cell growth using TF-1 human erythroleukemic cells in the presence of 0.5ng/ml of rat NGF. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for TrkA recombinant protein	TrkA, also known as Tyrosine kinase receptor A, is a member of the neurotrophic tyrosine kinase receptor(NTKR) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. It leads to cell differentiation and may play a role in specifying sensory neuron subtypes. It has a crucial role in the development and function of the nociceptive reception system as well as the establishment of thermal regulation via sweating. In one study conducted on two rat models, an inhibition of TrkA with AR786 led to a reduction in joint swelling, joint damage, and pain caused by inflammatory arthritis. Recombinant rat TrkA, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for TrkA recombinant protein	Neuroscience
References	Benito-Gutiérrez E, et al. (2006). Mol Cell Neurosci. 31:179-192.;; Lambiase A, et al. (2005). Natl Acad Sci. 102:16795-16800.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11024666
NCBI GeneID	59109
NCBI Accession #	NP_067600.1
NCBI GenBank Nucleotide #	NM_021589.1
UniProt Accession #	P35739
Molecular Weight	87,252 Da
NCBI Official Full Name	high affinity nerve growth factor receptor
NCBI Official Synonym Full Names	neurotrophic tyrosine kinase, receptor, type 1
NCBI Official Symbol	Ntrk1
NCBI Official Synonym Symbols	Trk
NCBI Protein Information	high affinity nerve growth factor receptor; trk; trk-A; p140-TrkA; TrkA neurotrophin receptor; trkA proto-oncogene receptor; tropomyosin-related kinase A; slow nerve growth factor receptor
UniProt Protein Name	High affinity nerve growth factor receptor
UniProt Gene Name	Ntrk1

UniProt Synonym Gene Names	Trk; Trka; Trk-A
UniProt Entry Name	NTRK1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ntrk1-recombinant-protein-hek293-bioactivity-sds-page/48422>