

Active Recombinant Rat NTRK1 protein, His-tagged

Cat. No. NTRK1-03R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat NTRK1 protein, fused to His-tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	35-418aa
Description	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.
Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Bio-activity	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.

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Molecular Mass	69 kDa
AA Sequence	SECRETCCPVG PSGLRCTRAG TLNTRLRGLRG AGNLTELYVE NQRDLQRLEF EDLQQLGELR SLTIVKSGLR FVAPDAFHFT PRLSHLNLSS NALESLSWKT VQGLSLQDLT LSGNPLHCSC ALLWLQRWEQ EDLCGVYTQK LQSGSGGDQF LPLGHNNSCG VPSVKIQMPN DSVEVGDDVF LQCQVEGQAL QQADWILTEL EGTATMKKSG DLPSLGLTLV NVTSDLNKKV VTCWAENDVG RAEVSVQVSV SFPASVHLGK AVEQHHWCIP FSVDGQPAPS LRWFFNGSVL NETSFIFTQF LESALTNETM RHGCLRLNQP THVNNNGNYTL LAANPYGQAA ASIMAAFMDN PFEFNPEDPI PVSFSPVDTN STSRDPVEKK DETP
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method).
Purity	> 90%
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml
GENE INFORMATION	
Gene Name	Ntrk1 neurotrophic receptor tyrosine kinase 1 [Rattus norvegicus (Norway rat)]
Official Symbol	NTRK1
Synonyms	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;

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TRK1-transforming tyrosine kinase protein; TRKA Oncogene TRK; TRKTRK1; tyrosine kinase receptor A

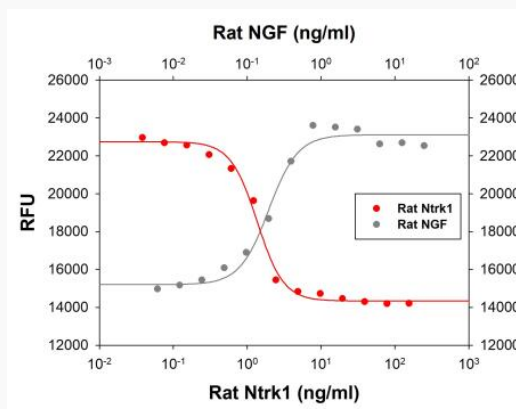
Gene ID 59109

mRNA Refseq NM_021589

Protein Refseq NP_067600

UniProt ID P35739

Biological Activity



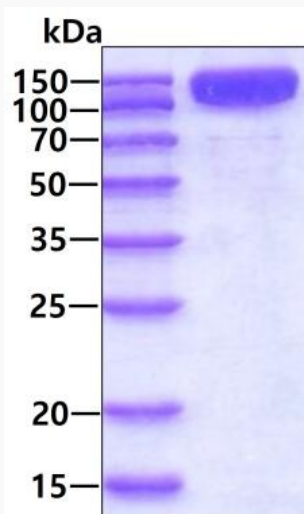
Rat Ntrk1 inhibits cell growth using TF-1 human erythroleukemic cells in the presence of 0.5 ng/ml of rat NGF. The ED₅₀ range ≤ 5 ng/ml.

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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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