NKMAXBio We support you, we believe in your research

Recombinant rat TrkA protein

Catalog Number: ATGP4085

PRODUCT INFORMATION

Expression system

HEK293

Domain

35-418aa

UniProt No.

P35739

NCBI Accession No.

NP 067600.1

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

69kDa (623aa)

Concentration

1 mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

Purity

> 90% by SDS - PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological 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 \leq 5 ng/ml.

ıag

hlgG-His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

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.



NKMAXBIO We support you, we believe in your research

Recombinant rat TrkA protein

Catalog Number: ATGP4085

BACKGROUND

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.

Amino acid Sequence

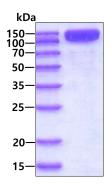
SCRETCCPVG PSGLRCTRAG TLNTLRGLRG AGNLTELYVE NQRDLQRLEF EDLQGLGELR SLTIVKSGLR FVAPDAFHFT PRLSHLNLSS NALESLSWKT VQGLSLQDLT LSGNPLHCSC ALLWLQRWEQ EDLCGVYTQK LQGSGSGDQF LPLGHNNSCG VPSVKIQMPN DSVEVGDDVF LQCQVEGQAL QQADWILTEL EGTATMKKSG DLPSLGLTLV NVTSDLNKKN VTCWAENDVG RAEVSVQVSV SFPASVHLGK AVEQHHWCIP FSVDGQPAPS LRWFFNGSVL NETSFIFTQF LESALTNETM RHGCLRLNQP THVNNGNYTL LAANPYGQAA ASIMAAFMDN PFEFNPEDPI PVSFSPVDTN STSRDPVEKK DETP<LEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTPPVLDS DGSFFLYSKL TVDKSRWOOG NVFSCSVMHE ALHNHYTOKS LSLSPGKHHH HHH>

General References

Benito-Gutiérrez E, et al. (2006). Mol Cell Neurosci. 31:179-192. Lambiase A, et al. (2005). Natl Acad Sci. 102:16795-16800.

DATA

SDS-PAGE



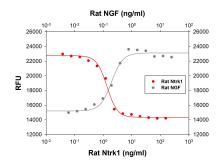
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

NKMAXBio We support you, we believe in your research

Recombinant rat TrkA protein

Catalog Number: ATGP4085



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 \leq 5ng/ml.

