
Product Data Sheet

Product Name: NTRK1 Rat
 Cat. No.: GP26199
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	TRKA, TRK-A, NTRK-1.		
Amino Acid Sequence	<p>SCRETCCPVG PSGLRCTRAG TLNTRLRGLRG AGNLTELYVE NQRDLQRLEF EDLQGLGELR SLTIVKSGLR FVAPDAFHFT PRLSHLNLSS NALESLSWKT VQGLSLQDLT LSGNPLHCSC ALLWLQRWEQ EDLCGVYTQK LQGSGSGDQF LPLGHNNSCG VPSVKIQMPN DSVEVGDDVF LQCQVEGQAL QQADWILTEL EGTATMKKSG DLPSLGLTLV NVTSDLNKKV VTCWAENDVG RAEVSVQVSV SFPASVHLGK AVEQHHCIP FSVDGQPAPS LRWFFNGSVL NETSFIFTQF LESALTNEM RHGCLRLNQP THVNNGNYTL LAANPYGQAA ASIMAAFMDN PFEFNPEDPI PVSFSPVDTN STSRDPVEKK DETP LEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLHQDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGKHHH HHH</p>		
Formulation	NTRK1 protein solution (1mg/ml) in Phosphate-Buffered Saline (pH 7.4) and 10% Glycerol.		

Introduction

NTRK1 plays a role in the development and survival of nerve cells (neurons), specifically those that transmit data regarding senses such as touch, pain and temperature ie. sensory neurons. NTRK1 protein is located on surface cells, mainly such as sensory neurons. NTRK1 acts as a kinase enzyme that alters the activity of different proteins by adding an oxygen cluster and phosphorus atoms at precise positions ie. phosphorylation. NTRK1 activated by nerve growth factor beta which binds to it and signals the NTRK1 protein to phosphorylate itself. Post autophosphorylation, the activated NTRK1 protein

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

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phosphorylates other proteins which is required for cell growth and survival.

Biological Activity

Measured by its ability to inhibit NGF-induced proliferation assay using TF1 human erythroleukemic cells in the presence of 0.5ng/ml of rat NGF. The ED50 range \leq 5 ng/ml.

Stability

NTRK1 although stable at 4°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

Background

NTRK1 Rat Recombinant produced in HEK is a single, non-glycosylated polypeptide chain containing 623 amino acids (35-418 a.a) and having a molecular mass of 69 kDa. NTRK1 is fused to a 239 amino acid human IgG-His-tag at C-terminus & purified by proprietary chromatographic techniques.

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