

Recombinant human Trk-A/NTRK1 Protein

Catalog No.: RP01726 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
human	4914	P04629-1

Tags

C-6His

Synonyms

MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA; NTRK1

Product Information

Source	Purification
HEK293 cells	

Endotoxin

< 0.01EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

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Background

This protein is a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, mental retardation and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date.

Basic Information

Description

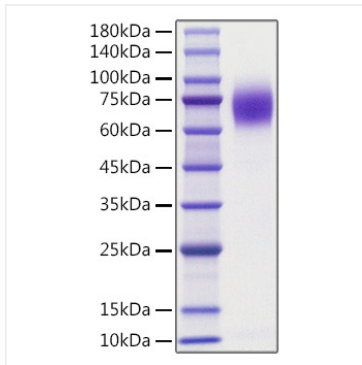
Recombinant human Trk-A/NTRK1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala33-Glu413) of human Trk-A/NTRK1 (Accession #NP_001012331.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity

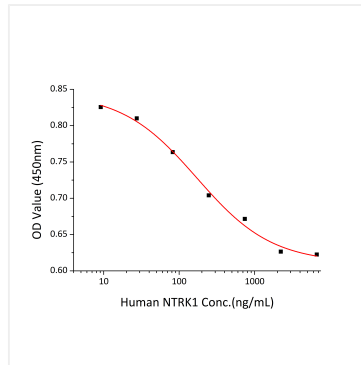
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant human Trk-A/NTRK1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 75-90kDa.



Recombinant human NTRK1 inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED_{50} for this effect is 0.086-0.34 $\mu\text{g/mL}$ in the presence of 10 ng/mL of Recombinant Human beta-NGF.