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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	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
42.35 kDa	60-80 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein 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. 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.

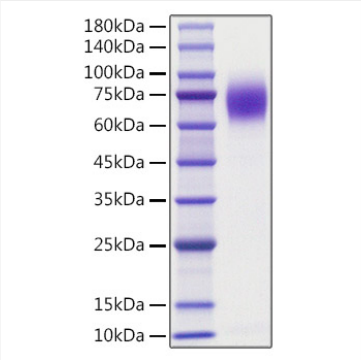
Bio-Activity
Measured by its ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 0.086-0.34 μg/mL in the presence of 10 ng/mL of Recombinant Human beta-NGF.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

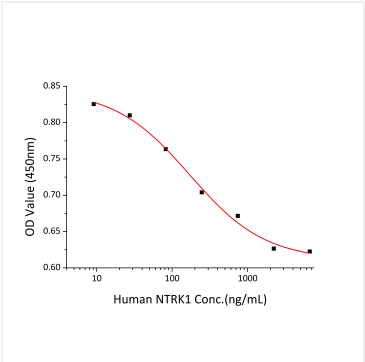
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant human Trk-A/NTRK1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant human Trk-A/NTRK1 inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 0.086-0.34 μg/mL in the presence of 10 ng/mL of Recombinant Human beta-NGF.