Recombinant Human Trk-A/NTRK1 Protein

Catalog No.: RP00088

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Sequence Information

Species
Human

Gene ID
4914

Swiss Prot
P04629

Tags
C-hFc&His

Synonyms
MTC, TRK, TRK1, TRKA, Trk-A, p140-TrkA,NTRK1,TRK,TRK1,TRKA, Trk-A,p140-TrkA

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
68.30 kDa

Observed MW
110-120 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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.

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 expression system. The target protein is expressed with sequence (Ala33-Glu407) of human TrkA (Accession #NP_001012331.1) fused with an Fc, 6×His tag at the C-terminus.

Activity
Measured by its ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED_{50} for this effect is typically 12-48 ng/mL in the presence of 10 ng/mL of recombinant human NGF.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

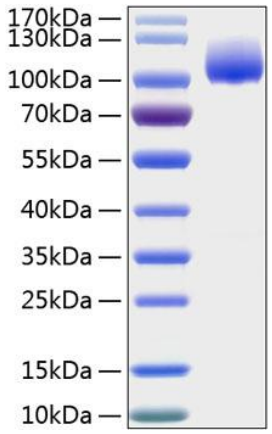
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

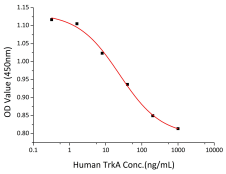
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Validation Data



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



Recombinant Human TrkA inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED_{50} for this effect is typically 12-48 ng/mL in the presence of 10 ng/ml of recombinant human NGF.