

RP00088

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Recombinant Human Trk-A/NTRK1 Protein

Catalog No.: RP00088

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	4914	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	Purification
HEK293 cells	> 97% by SDS-PAGE.

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 stabilizer (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 (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 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.

Bio-Activity

Measured by its ability to inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 12-48 ng/mL in the presence of 10 ng/mL of recombinant human NGF.

Storage

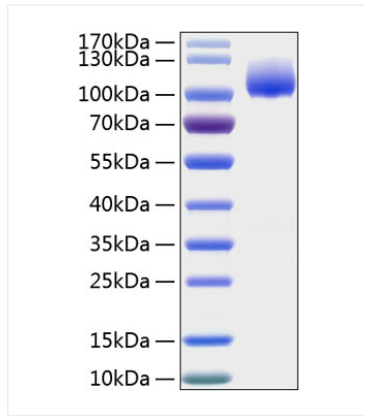
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

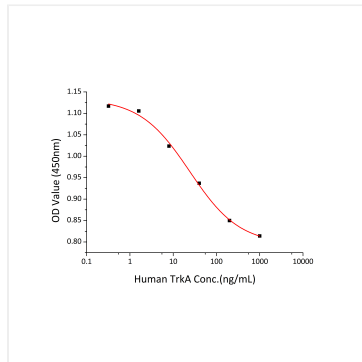


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Validation Data



Recombinant Human Trk-A/NTRK1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-120 kDa..



Recombinant Human TrkA inhibit NGF-induced proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 12-48 ng/mL in the presence of 10 ng/ml of recombinant human NGF.