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Datasheet for ABIN7533912 TRKA Protein (Fc Tag,His tag)

Overview

Quantity:	100 µg
Target:	TRKA (NTRK1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TRKA protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Active Recombinant Human Trk-A/NTRK1 Protein
Sequence:	AAPCPDACP HGSSGLRCTR DGALDSLHHL PGAENLTELY IENQQHLQHL ELRDLRGLGE LRNLTIVKSG LRFVAPDAFH FTPRLSRLNL SFNALESLSW KTVQGLSLQE LVLSGNPLHC SCALRWLQRW EEEGLGGVPE QKLQCHGQGP LAHMPNASC G VPTLKVQVPN ASVDVGDDVL LRCQVEGRGL EQAGWILTEL EQSATVMKSG GLPSLGLTLA NVTSDLNRKN VTCWAENDVG RAEVSQVNV SFPASVQLHT AVEMHHWCIP FSVDGQPAPS LRWLFNGSVL NETSFIFTEF LEPAANETVR HGCLRLNQPT HVNNGNYTLL AANPFGQASA SIMAAFMDNP FEFNPEDPIP DTNSTSGDPV EKKDE
Specificity:	Ala33-Glu407
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Product Details

Biological Activity Comment: 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.

Target Details

Target: TRKA (NTRK1)

Alternative Name: Trk-A/NTRK1 ([NTRK1 Products](#))

Background: Description: 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.

Name: MTC, TRK, TRK1, TRKA, Trk-A, p140-TrkA, NTRK1, TRK, TRK1, TRKA, Trk-A, p140-TrkA

Gene ID: 4914

UniProt: [P04629](#)

Pathways: [RTK Signaling](#), [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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.

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

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.

Handling

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.