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Datasheet for ABIN7318063
NTRK3 Protein (His tag)

Overview

Quantity:	100 µg
Target:	NTRK3
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NTRK3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TrkC/NTRK3 Protein (His Tag)(Active)
Sequence:	Met 1-Asp 428
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Asp 428) of human TrkC (NP_001007157.1) was expressed with a C-terminal polyhistide tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized human Trkc-His at 10 µg/ml (100 µl/well) can bind biotinylated human NT3 , The EC50 of biotinylated human NT3 is 0.03-0.07 µg/ml.

Target Details

Target:	NTRK3
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Target Details

Alternative Name: TrkC/NTRK3 ([NTRK3 Products](#))

Background: Background: NT-3 growth factor receptor also known as neurotrophic tyrosine kinase receptor type 3 or TrkC tyrosine kinase or Trk-C receptor, is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. TrkC/NTRK3 is widely expressed in the developing and adult nervous system. In later embryonic development, TrkC/NTRK3 is expressed in various structures of the CNS including the caudatoputamen, septal nuclei, cerebellum, and brainstem. Other neurotrophins include nerve growth factor(NGF), neurotrophin-3 and neurotrophin-4. In the PNS, trkC hybridization appears to correlate, both temporally and spatially, with the outgrowth of axons toward their peripheral targets. TrkC/NTRK3 is widely expressed in the three identified branches of the mammalian nervous system and appears to correlate with the expression of NT-3, its cognate ligand. The apparent colocalization of trkC transcripts with NT-3 raises the possibility this neurotrophin exerts its trophic effects by a paracrine and/or autocrine mechanism. Signalling through this kinase leads to cell differentiation and may play a role in the development of proprioceptive neurons that sense body position. Mutations in TrkC encoding gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy
Synonym: gp145(trkC);TRKC

Molecular Weight: 46.1 kDa

NCBI Accession: [NP_001007157](#)

Pathways: [RTK Signaling, Neurotrophin Signaling Pathway, Regulation of Cell Size](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Handling

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.