

## Recombinant Human NTRK3, Fc Chimera

Cat. No. NTRK3-110H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human tyrosine kinase receptor C was fused to the Fc region of human IgG1 (aa 93-330). The chimeric protein was expressed in modified *human 293 cells*.

**Species** Human

**Source** HEK293

**Description** TrkC, also known as neurotrophic tyrosine kinase receptor type 3 (NTRK3), is a member of the tropomyosin-related kinase (trk or Trk) receptor family, consisting of TrkA, TrkB, and TrkC. Trk receptors bind neurotrophins, including neural growth factor (NGF), brain derived neurotrophic factor (BDNF), and neurotrophic factors 3 and 4/5 (NT-3, NT4/5). TrkC is located on the plasma membrane of neural cells such as the hippocampus, the cerebral cortex, and the granular cell layer of the cerebellum, and it specifically binds NT-3 as a ligand. TrkC is a heavily glycosylated molecule with 13 potential N-linked glycosylation sites within the extracellular domain (ECD).

**Molecular Mass** TrkC - Fc Chimera migrates as a broad band between 85 and 150 kDa in SDS-PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified TrkC – Fc Chimera that has a predicted molecular mass of 71.9 kDa.

**PI** TrkC – Fc Chimera separates into a number of isoforms with a pI between 4 and 7 in 2D PAGE due to post-translational modifications, in particular glycosylation. This compares with the unmodified TrkC – Fc Chimera that has a predicted pI of 5.8.

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<b>% Carbohydrate</b>	TrkC – Fc Chimera consists of 15-55% carbohydrate by weight.
<b>Glycosylation</b>	TrkC – Fc Chimera is N-glycosylated and is probably O-glycosylated.
<b>Purity</b>	>95%, as determined by SDS-PAGE and visualized by silver stain.
<b>Formulation</b>	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
<b>Reconstitution</b>	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
<b>Storage</b>	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C.

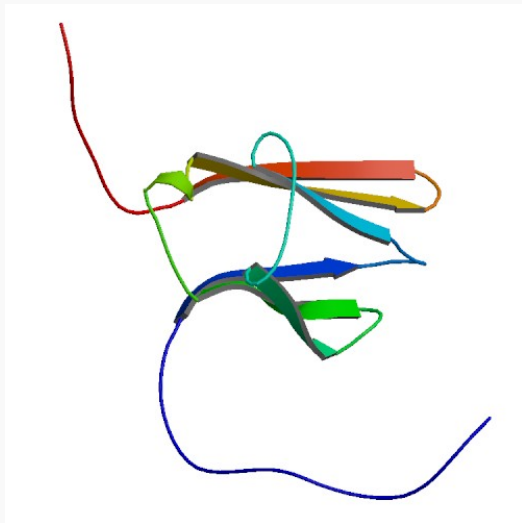
## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NTRK3 neurotrophic tyrosine kinase, receptor, type 3 [ Homo sapiens ]</a>
<b>Synonyms</b>	neurotrophic tyrosine kinase, receptor, type 3; TRKC; gp145(trkC); NTRK3; ETV6-NTRK3 fusion; OTTHUMP00000192915; neurotrophin 3 receptor; tyrosine kinase receptor C; NT-3 growth factor receptor; ETS related protein-neurotrophic receptor tyrosine kinase fusion protein; EC 2.7.10.1; GP145-TrkC; OTTHUMP00000192915; Trk-C; Neurotrophic tyrosine kinase receptor type 3; TrkC tyrosine kinase
<b>Gene ID</b>	<a href="#">4916</a>
<b>mRNA Refseq</b>	<a href="#">NM_001007156</a>
<b>Protein Refseq</b>	<a href="#">NP_001007157</a>

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<b>MIM</b>	191316
<b>UniProt ID</b>	Q16288
<b>Chromosome Location</b>	15q25
<b>Pathway</b>	Neurotrophin signaling pathway
<b>Function</b>	ATP binding; neurotrophin receptor activity; nucleotide binding; protein binding; transferase activity; transmembrane receptor protein tyrosine kinase activity
<b>PDB rendering based on 1wwc.</b>	

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