

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 <i>human 293 cells</i> .
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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% Carbohydrate	TrkC – Fc Chimera consists of 15-55% carbohydrate by weight.
Glycosylation	TrkC – Fc Chimera is N-glycosylated and is probably O-glycosylated.
Purity	>95%, as determined by SDS-PAGE and visualized by silver stain.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	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

Gene Name	NTRK3 neurotrophic tyrosine kinase, receptor, type 3 [Homo sapiens]
Synonyms	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
Gene ID	4916
mRNA Refseq	NM_001007156
Protein Refseq	NP_001007157

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