

Recombinant Human NGFR, 209aa, Fc Chimera

Cat. No. NGFR-452H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Nerve growth factor receptor was expressed in modified <i>human 293 cells</i> . It was fused to the Fc region of human IgG1 (aa 93-330).
Species	Human
Source	HEK293
Description	Nerve growth factor receptor (NGFR; NGFR) is a low affinity NGF receptor. NGF R binds with equal affinity all neurotrophins including NGF beta, brain derived neurotrophic factor (BDNF) and neurotrophin-3 (NT3) and neurotrophin-5 (NT4/5). The association of NGFR with the other NGF receptors such as TrkA, B and C results in higher affinity ligand binding. Ligand binding to the NGF R can promote either survival or apoptosis of neurons. The effects of neurotrophins exerted through NGF R include conditions such as pain, depression, obesity, nerve regeneration disorders, learning and memory. Additionally, NGFR may play a role in neuronal death that occurs in disorders of the CNS such as Alzheimer's disease.
Molecular Mass	NGFR(209 aa) - Fc Chimera migrates as a broad band between 65 and 90 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. This compares with the unmodified NGFR-Fc Chimera that has a predicted mass of 49.2kDa.
pI	NGFR (209 aa) - Fc Chimera separates into a number of isoforms with a pI between 4.2 and 5.3 in 2D PAGE due to post-translational modifications, in particular

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	glycosylation. This compares with the unmodified NGF R-Fc Chimera that has a predicted pI of 4.89.
% Carbohydrate	NGFR (209 aa) - Fc Chimera consists of 25-45% carbohydrate by weight.
Glycosylation	NGFR (209 aa) - Fc Chimera has N-linked and O-linked oligosaccharides.
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.
Theoretical Sequence	KEACPTGLYTHSG ECCKACNLGEGVAQPC GANQTVCEPCLDSVT FSDVVS AT E P CKP CTECV GLQ SM SAPCV EADDA VCRCAY GYYQDET TGRCEAC RVC EA GS GLVFSCQ DKQNT VCEECF DGTYSDE ANHVDPC LPCTVCED TERQLREC TRWADAEC EEIPG RWITRS TPPEGSD STAPSTQ EPEAPP EQDLIAS TVAGVV TTVMG IPKVD KKVPE KSCDKT HTCPCP PAPELLG GPSVFL FPPKPK DTLMISR TPEV TCVV VDVSH DPEVKFN WYVDGV EVHNAKT KPRE EQY NSTYRV VSVLTVL HQDWLNGK EYKCRV SNKALP APIEKTIS KA KG QP REPQVYT LPPSRDE LTKNQVS LTCLVK GFYPSDI AVEWESN GQPENNY KT TPPVLD SDGSFFLY SKLTVDKS RWQQGNV FSCSVM HEALHNHY TQKSLSLS P GK.

GENE INFORMATION

Gene Name NGFR nerve growth factor receptor (TNFR superfamily, member 16) [Homo sapiens]

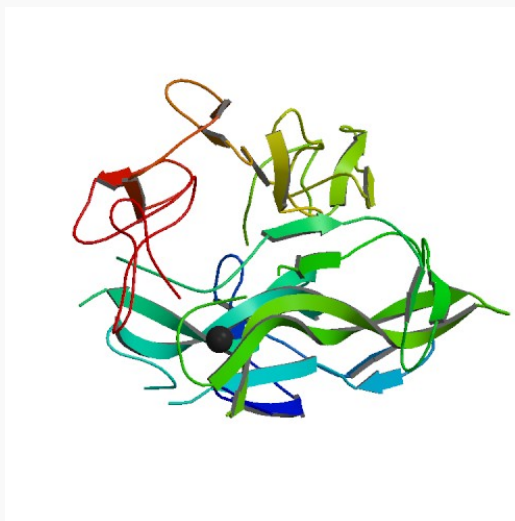
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Synonyms	nerve growth factor receptor (TNFR superfamily, member 16); CD271; p75NTR; TNFRSF16; p75(NTR); Gp80-LNGFR; NGFR; nerve growth factor receptor; low affinity nerve growth factor receptor; low-affinity nerve growth factor receptor; CD271 antigen; Low affinity neurotrophin receptor p75NTR; Low-affinity nerve growth factor receptor; NGF receptor; p75 ICD
Gene ID	4804
mRNA Refseq	NM_002507
Protein Refseq	NP_002498
MIM	162010
UniProt ID	P08138
Chromosome Location	17q21-q22
Pathway	Cytokine-cytokine receptor interaction; Neurotrophin signaling pathway; Signalling by NGF
Function	catalytic activity; death receptor activity; nerve growth factor binding; neurotrophin receptor activity; protein binding

PDB rendering based
on 1sg1.



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