



## Human Nerve Growth Factor Receptor-Fc Chimera (209 amino acids) expressed in mammalian cells

<b>Catalogue No.:</b>	PE-1237-25
<b>Description:</b>	Nerve growth factor (NGF) receptor, also known as p75NTR, is a low affinity NGF receptor. It binds with equal affinity neurotrophins such as beta NGF, BDNF, NT-3 and NT-4. NGF receptors mediate signaling of neurotrophins for neuronal survival, apoptosis, neurite outgrowth and synaptic plasticity. These receptors are also thought to play a role in neurodegenerative diseases such as Alzheimers disease. The NGF receptor is a type I transmembrane glycoprotein (399 aa) consisting of a signal peptide (28 aa), an extracellular domain (222 aa) which contains four cysteine rich domains responsible for ligand binding, a transmembrane domain (22 aa) and a cytoplasmic domain (155 aa).
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	25 µg
<b>Other Names:</b>	Low-affinity nerve growth factor receptor; NGF receptor; Gp80-LNGFR; p75 ICD; Low affinity neurotrophin receptor p75NTR; p75NTR; CD271;
<b>Accession:</b>	P08138 TNR16_HUMAN;
<b>Produced in:</b>	Human - A DNA sequence encoding the signal peptide and extracellular domain of human NGF receptor (amino acids 1-237) was fused to the Fc region of human IgG1 (amino acids 93-330). The chimeric protein was expressed in modified human 293 cells.
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<b>Molecular Weight:</b>	The NGF Receptor-Fc chimera migrates as a broad band between 65 and 90 kDa in SDS-PAGE due to post-translational modifications, in particular glycosylation. The unmodified NGF Receptor-Fc chimera has a predicted mass of 49.2 kDa.  The NGF Receptor-Fc chimera separates into a number of isoforms with a pI between 4.2 and 5.3 in 2D PAGE. The unmodified NGF Receptor-Fc chimera has a predicted pI of 4.89.
<b>Purity:</b>	>95%, as determined by SDS-PAGE and visualized by silver stain
<b>Form:</b>	The NGF Receptor-Fc chimera consists of 25-45% carbohydrate by weight.
<b>Reconstitution:</b>	It is recommended that 0.5 ml of sterile phosphate-buffered saline (PBS) be added to the vial. When reconstituted in 0.5ml of PBS, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
<b>Storage:</b>	Lyophilized products should be stored at 2-8°C. Following reconstitution, short-term storage at 4°C is recommended and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

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