

## Human Nerve Growth Factor Receptor-Fc Chimera (222 amino acids) expressed in mammalian cells

<b>Catalogue No.:</b>	PE-1238-25
<b>Description:</b>	THIS PRODUCT HAS BEEN SUPERCEDED. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. 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 neurogenerative 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 ug
<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 1-250) was fused to the Fc region of human IgG1 (amino acids 93-330). The chimeric protein was expressed in modified human 293 cells.
<b>Molecular Weight:</b>	<p>The NGF Receptor-Fc chimera migrates as a broad band between 75 and 100 kDa in SDS-PAGE due to post-translation modifications, in particular glycosylation. The unmodified NGF Receptor-Fc chimera has a predicted mass of of 50.8 kDa.</p> <p>The NGF Receptor-Fc chimera separates into a number of isoforms with a pI between 4.0 and 6.0 in 2D PAGE. The unmodified NGF Receptor-Fc chimera has a predicted pI of 4.89.</p>
<b>Purity:</b>	>95%, as determined by SDS-PAGE and visualized by silver stain
<b>Biol. activity:</b>	The ED50 of the NGF Receptor-Fc chimera is typically 0.7 - 1.0 ug/ml as measured by its ability to neutralize beta NGF mediated proliferation of the human growth-factor dependent TF-1 cell line.
<b>Form:</b>	The NGF Receptor-Fc chimera consists of 30-50% carbohydrate by weight. 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 8C. Following reconstitution short-term storage at 2-8C is recommended, and longer-term storage of aliquots at -18 to -20C. Repeated freeze/thawing is not recommended.

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FOR RESEARCH USE ONLY



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