

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

Catalogue No.:	PE-1237-25
Description:	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).
Batch No.:	See product label
Unit size:	25 ug
Other Names:	Low-affinity nerve growth factor receptor; NGF receptor; Gp80-LNGFR; p75 ICD; Low affinity neurotrophin receptor p75NTR; p75NTR; CD271;
Accession:	P08138 TNR16_HUMAN;
Produced in:	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.
Molecular Weight:	<p>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.</p> <p>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.</p>
Purity:	>95%, as determined by SDS-PAGE and visualized by silver stain
Form:	The NGF Receptor-Fc chimera consists of 25-45% carbohydrate by weight.
Reconstitution:	It is recommended that 0.5 mL of sterile phosphate-buffered saline (PBS) be added to the vial. When reconstituted in 0.5 mL of PBS, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Storage:	Lyophilized products should be stored at 2-8C. 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.

FOR RESEARCH USE ONLY