

Mouse p75NTR Nerve Growth Factor Receptor-Fc Chimera expressed in mammalian cells

Catalogue No.:	PE-1704-25
Description:	Nerve growth factor (NGF) receptor, also known as p75NTR, is a low affinity NGF receptor. It binds with equal affinity all members of the neurotrophin family including beta NGF, BDNF, NT-3 and NT-4/5. It also binds the pro-neurotrophins. 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 p75NTR NGF receptor is a type I transmembrane glycoprotein (396 aa) consisting of a signal peptide (21 aa), an extracellular domain (225 aa) which contains four cysteine rich domains responsible for ligand binding, a transmembrane domain (19 aa) and a cytoplasmic domain (152 aa). It is a member of the TNF-alpha receptor family (TNR16). Recently, p75NTR has been shown to act as a receptor for many pathogens such as prions, rabies virus and amyloid beta. It also acts as a co-receptor for NOGO, mediating inhibitory signals of myelin associated protein.
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; Fast NGF receptor.
Accession:	Q9Z0W1 TNR16_MOUSE;
Produced in:	Mammalian (CHO) cells. A DNA sequence encoding the signal peptide and extracellular domain of mouse NGF receptor (amino acids 1-224) was fused to the Fc region of human IgG1 (amino acids 104-330). The chimeric protein was expressed in modified CHO cells. The full sequence is available on request from biospeak@biosensis.com.
Molecular Weight:	The NGF Receptor-Fc chimera migrates as a broad band between 65 and 115 kDa in SDS-PAGE due to post-translational modifications, in particular glycosylation. The unmodified NGF Receptor-Fc chimera has a predicted mass of 49.7 kDa. The unmodified NGF Receptor-Fc chimera has a predicted pI of 4.92.
Purity:	>95%, as determined by SDS-PAGE.
Form:	Freeze-dried.
Reconstitution:	It is recommended that 0.25 mL of sterile phosphate-buffered saline (PBS) be added to the vial.
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