Recombinant Mouse Nerve Growth Factor Receptor, Fc-tagged

Cat. No. Ngfr-1769M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The DNA sequence encoding the signal peptide from human CD33 joined with the extracellular domain of mouse nerve growth factor receptor, NGFR was fused to the Fc region of human IgG1 via a peptide linker, inserted into a suitable mammalian expression vector and expressed in*NSO*cells.
Species	Mouse
Source	Mammalian Cells
Description	Nerve growth factor receptor (NGFR), also known as the low-affinity receptor p75NTR is a transmembrane glycoprotein without intrinsic tyrosine kinase activity, whose expression is not restricted to neural cells. NGFR is reported to act as a tumour suppressor, negatively regulating cell growth and proliferation. It is also involved in several diverse functions such as apoptosis, neurite outgrowth during development, and myelination. p75NGFR contributes to delayed neuronal death (DND) after ischemia by an apoptotic mechanism.
Molecular Weight	The predicted molecular weight of Recombinant Mouse NGFR is Mr 50.4 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 75-100 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation	This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Endotoxin	<0.1 EU/μg as determined by the LAL method.
Biological Activity	The biological activity of Mouse NGF R was determined byits ability to inhibit rmβ-NGF-induced proliferation of TF-1 cells. The expected ED50 0.5 - 1.5 μg/ml in the presence of 2 ng/ml of rmβ-NGF.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20℃ to -70℃. After aseptic reconstitution, this protein may be stored at 2℃ to 8℃ for one month or at -20℃ to -70℃ in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Ngfr nerve growth factor receptor (TNFR superfamily, member 16) [Mus musculus]
Synonyms	Ngfr; nerve growth factor receptor (TNFR superfamily, member 16); p75; LNGFR; p75NTR; p75NGFR; Tnfrsf16; OTTMUSP00000001585; p75 neurotrophin receptor
Gene ID	18053
mRNA Refseq	NM_033217
Protein Refseq	NP_150086
UniProt ID	Q9Z0W1

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	11 D; 11 55.6 cM
Pathway	Cytokine-cytokine receptor interaction; Neurotrophin signaling pathway
Function	death receptor activity; nerve growth factor binding; protein binding; receptor activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA