Recombinant Mouse Ngfr Protein, Myc/DDK-tagged

Cat. No. Ngfr-4408M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length nerve growth factor receptor (TNFR superfamily, member 16) (Ngfr), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Low affinity neurotrophin receptor which can bind to mature NGF, BDNF, NTF3, and NTF4. Forms a heterodimeric receptor with SORCS2 that binds the precursor forms of NGF (proNGF), BDNF (proBDNF) and NTF3 (proNT3) with high affinity, and has much lower affinity for mature NGF and BDNF. Plays an important role in differentiation and survival of specific neuronal populations during development. Can mediate cell survival as well as cell death of neural cells. The heterodimeric receptor formed with SORCS2 plays a role in proBDNF-dependent synaptic plasticity, in hippocampal long term depression (LTD) and long term potentiation (LTP) Plays a role in the inactivation of RHOA. Plays a role in the regulation of the translocation of GLUT4 to the cell surface in adipocytes and skeletal muscle cells in response to insulin, probably by regulating RAB31 activity, and thereby contributes to the regulation of insulin-dependent glucose uptake Necessary for the circadian oscillation of the clock genes ARNTL/BMAL1, PER1, PER2 and NR1D1 in the suprachiasmatic nucleus (SCN) of the brain and in liver and of the genes involved in glucose and lipid metabolism in the liver

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Molecular Mass	45.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ngfr nerve growth factor receptor (TNFR superfamily, member 16) [Mus musculus (house mouse)]
Official Symbol	Ngfr
Synonyms	NGFR; nerve growth factor receptor (TNFR superfamily, member 16); tumor necrosis factor receptor superfamily member 16; NGF receptor; p75 neurotrophin receptor; low affinity neurotrophin receptor p75NTR; low-affinity nerve growth factor receptor; p75; LNGFR; p75NTR; p75NGFR; Tnfrsf16
Gene ID	18053
mRNA Refseq	NM_033217
Protein Refseq	NP_150086

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UniProt ID	Q8CFT3

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