

## Product datasheet for **TP526206**

### Ngfr (NM\_033217) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse nerve growth factor receptor (TNFR superfamily, member 16) (Ngfr), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226206 representing NM_033217 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MRRAGAACSAMDRLRLLLLLLLLLLVSFSGGAKETCSTGMYTHSGECCKACNLGEGVAQPCGANQTVCEP C LDSVTFSDVVSATEPCKPCTECLGLQSMSAPCVEADDAVCRCYGYQDEETGRCEACSVCGVSGSLVFS CQDKQNTVCEECEPTYSDAEANHVDPCLPCTVCEDTERQLRECTPWADAECEEIPGRWITRSTPPEGSDV TTPSTQEPEAPPERDLIASTVADTVTTVMGSSQPVVTRGTADNLIPVYCSILAAVVVGLVAYIAFKRWNS CKQNKQGANSRPVNQTPPPEGEKLSHSDSGISVDSQSLHDQQTHTQTASGQALKGDGNLYSSLPLTKREE V EKLNGDTWRHLAGELGYQPEHIDSFTHEACPVRALLASWGAQDSATLDALLAALRRIQRADIVESLCSE STATSPV</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	45.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq:	<u>NP_150086</u>
Locus ID:	18053
UniProt ID:	<u>Q9Z0W1</u>
RefSeq Size:	3409
Cytogenetics:	11 59.01 cM
RefSeq ORF:	1281
Synonyms:	LNGFR; p75; p75NGFR; p75NTR; Tnfrsf16
Summary:	<p>Low affinity neurotrophin receptor which can bind to mature NGF, BDNF, NTF3, and NTF4 (PubMed:11559852, PubMed:1317267). 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 (PubMed:22155786, PubMed:24908487, PubMed:27457814). Plays an important role in differentiation and survival of specific neuronal populations during development (PubMed:1317267, PubMed:11559852). Can mediate cell survival as well as cell death of neural cells (PubMed:1317267, PubMed:11559852, PubMed:24908487). 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) (PubMed:27457814). Plays a role in the inactivation of RHOA (By similarity). 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 (PubMed:22460790). 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 (PubMed:23785138).[UniProtKB/Swiss-Prot Function]</p>