

Product datasheet for TP525453

Ngf (NM_013609) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse nerve growth factor (Ngf), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225453 representing NM_013609 <div> <div>Red</div>=Cloning site <div>Green</div>=Tags(s) </div> <p>MLCLKPVKLGSLVGHGQHGGVLACGRAVQGAGWHAGPKLTSVSGPNKGFADAAFYTG RSEVHSVMS ML FYTLITAFILGVQAEPYTD SNVPEGDSVPEAHWTKLQHSLDTALRRARSAPTAPIAARVTGQTRNITVDP RLFKKRRRLHSPRVLFSTQPPPTSSDTLDLDFQAHGTIPFNRTHRSKRSSTHPVFHMGESVCDSDSVVWVG DKTTATDIKGKEVTVLA EVNINNSVFRQYFFETKCRASN PVESGCRGIDSKHWN SYCTTTHTFVKALTTD EKQAAWRFIRIDTACVCVLSRKATRRG</p> <div> <div>TR</div> <div>TRPLEQKLISEEDLA</div> <div>ANDILDYKDDDDKV</div> </div>
Tag:	C-MYC/DDK
Predicted MW:	33.8 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.
RefSeq:	NP_038637
Locus ID:	18049
UniProt ID:	P01139


[View online »](#)

RefSeq Size:	1196
Cytogenetics:	3 45.25 cM
RefSeq ORF:	921
Synonyms:	beta-NGF; Ngfb
Summary:	<p>Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems (PubMed:20036257). Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades to regulate neuronal proliferation, differentiation and survival (PubMed:22649032). The immature NGF precursor (proNGF) functions as ligand for the heterodimeric receptor formed by SORCS2 and NGFR, and activates cellular signaling cascades that lead to inactivation of RAC1 and/or RAC2, reorganization of the actin cytoskeleton and neuronal growth cone collapse (PubMed:22155786). In contrast to mature NGF, the precursor form (proNGF) promotes neuronal apoptosis (in vitro) (PubMed:20036257). Inhibits metalloproteinase-dependent proteolysis of platelet glycoprotein VI (By similarity). Binds lysophosphatidylinositol and lysophosphatidylserine between the two chains of the homodimer (PubMed:22649032, PubMed:26144237). The lipid-bound form promotes histamine release from mast cells, contrary to the lipid-free form (PubMed:22649032).[UniProtKB/Swiss-Prot Function]</p>