Recombinant Rat Ngf Protein, His-tagged

Cat. No. Ngf-1826R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ngf Protein (Glu19-Gly241) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Glu19-Gly241
Description	Predicted to enable nerve growth factor receptor binding activity; peptidase regulator activity; and signaling receptor activator activity. Involved in several processes, including negative regulation of apoptotic process; positive regulation of ERK1 and ERK2 cascade; and response to ozone. Acts upstream of or within positive regulation of DNA-binding transcription factor activity; positive regulation of neurotrophin TRK receptor signaling pathway; and positive regulation of protein autophosphorylation. Located in extracellular space. Used to study bladder neck obstruction; cystitis; degenerative disc disease; and neurogenic bladder. Biomarker of several diseases, including diabetic neuropathy; hyperhomocysteinemia; mental depression; myofascial pain syndrome; and respiratory syncytial virus infectious disease. Human ortholog(s) of this gene implicated in IgA glomerulonephritis; asthma; end stage renal disease; hereditary sensory and autonomic neuropathy type 5; and interstitial cystitis. Orthologous to human NGF (nerve growth factor).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.8 kDa

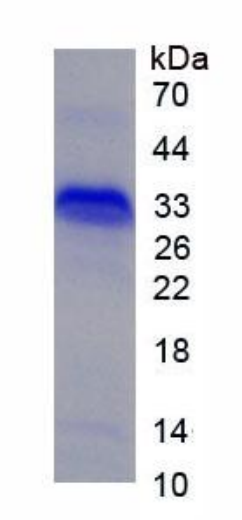
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	Accurate Molecular Mass: 33 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ngf nerve growth factor (beta polypeptide) [Rattus norvegicus (Norway rat)]
Official Symbol	Ngf
Synonyms	NGF; nerve growth factor (beta polypeptide); beta-nerve growth factor; beta-NGF; nerve growth factor, beta; Ngfb;
Gene ID	310738
mRNA Refseq	NM_001277055

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Protein Refseq	NP_001263984
UniProt ID	P25427
	

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