

Recombinant Mouse Gdnf protein, His-tagged

Cat. No. Gdnf-779M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gdnf aa. (Asp79~Leu217 (Accession # P48540)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Asp79~Leu217
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The recombinant form of this protein, a highly conserved neurotrophic factor, was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. This protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Homozygous knockout mice for this gene exhibit defects in kidney development and neonatal death. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.9kDa

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Characteristic	The isoelectric point is 8.9.
Applications	SDS-PAGE; WB; ELISA; IP
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4

GENE INFORMATION

Gene Name	Gdnf glial cell line derived neurotrophic factor [Mus musculus (house mouse)]
Official Symbol	Gdnf
Synonyms	Gdnf; glial cell line derived neurotrophic factor; ATF; A1385739; glial cell line-derived neurotrophic factor; astrocyte-derived trophic factor; neurotrophic factor
Gene ID	14573

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mRNA Refseq	NM_001301332.1
Protein Refseq	NP_001288261.1
UniProt ID	P48540
SDS-PAGE	

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