

# Product datasheet for TP761700

# GDNF (NM\_199231) Human Recombinant Protein

# **Product data:**

#### **Product Type: Recombinant Proteins Description:** Purified recombinant protein of Human glial cell derived neurotrophic factor (GDNF), transcript variant 2, full length, with N-terminal His tag, expressed in E. coli, 50ug Species: Human **Expression Host:** E. coli **Expression cDNA Clone** A DNA sequence encoding human full-length GDNF or AA Sequence: N-His Tag: Predicted MW: 18.8 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** 50 mM Tris-HCl, pH 8.0, 8 M urea Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C. Storage: 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 954701 Locus ID: 2668 **UniProt ID:** P39905, A0A0S2Z3T2 **RefSeq Size:** 681 Cytogenetics: 5p13.2 **RefSeq ORF:** 555 Synonyms: ATF; ATF1; ATF2; HFB1-GDNF; HSCR3



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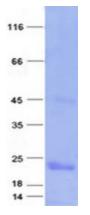
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Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors 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. Mutations in this gene may be associated with Hirschsprung disease and Tourette syndrome. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

## **Product images:**



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