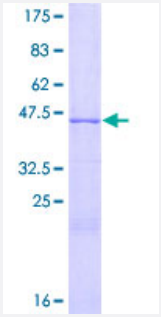
Full-Length

GDNF (Human) Recombinant Protein (P01)

Catalog # H00002668-P01 Size 10 ug, 25 ug

Applications



Specification

Product Description	Human GDNF full-length ORF (NP_000505.1, 1 a.a. - 211 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MKLWDVVAVCLVLLHTASAFPLPAGKRPPEAPAEDRSLGRRRAPFALSSDSNMPEDYPDQFDD VMDFIQATIKRLKRSPDKQMAVLPRRERNRQAAAANPENSRGKGRRGQRGKNRGCVLTAIHLNVT DLGLGYETKEELIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCRPIAFDDDLSFLDDN LVYHILRKHSAKRCGCI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	50.1
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GDNF

Entrez GeneID	2668
GeneBank Accession#	NM_000514.2
Protein Accession#	NP_000505.1
Gene Name	GDNF
Gene Alias	ATF1, ATF2, HFB1-GDNF
Gene Description	glial cell derived neurotrophic factor
Omim ID	142623 171300 209880 600837
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a highly conserved neurotrophic factor. The recombinant form of this protein 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. The encoded protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. In addition to the transcript encoding GDNF, two additional alternative transcripts encoding distinct proteins, referred to as astrocyte-derived trophic factors, have also been described. Mutations in this gene may be associated with Hirschsprung disease. [provided by RefSeq
Other Designations	astrocyte-derived trophic factor|glial cell line derived neurotrophic factor|glial derived neurotrophic factor

Disease

- Attention Deficit Disorder with Hyperactivity
- Celiac Disease
- Genetic Predisposition to Disease
- Hirschsprung Disease
- Hydronephrosis
- Malignant melanoma
- Melanoma
- Mental Disorders
- Narcolepsy
- Neoplasm Invasiveness
- Schizophrenia
- Skin Neoplasms
- Sleep Apnea
- Tourette Syndrome
- Vesico-Ureteral Reflux