Bioactive

GDNF (Human) Recombinant Protein

Catalog # P8681 Size 2 x 10 ug

Specification

Product Description	Human GDNF recombinant protein expressed in *Escherichia coli*.
Sequence	MSPDKQMAVLPRRERNRQAAAANPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLGLGYETKEE LIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCRPIAFDDDLSFLDDNLVYHILRKHSAK RCGCI
Host	Escherichia coli
Theoretical MW (kDa)	30
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	chromatographic
Purity	> 95% as determined by (a) RP-HPLC.(b) SDS-PAGE.
Activity	ED_{50} < 0.1 ng/mL, measured by the proliferation of rat C6 cells, corresponding to a specific activity o f > 1.0 x 10^7 units/mg.
Storage Buffer	Lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in ddH_2O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

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Gene Info — GDNF

Entrez GeneID	2668
Protein Accession#	P39905
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

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- Neoplasm Invasiveness
- Schizophrenia
- Skin Neoplasms
- Sleep Apnea
- Tourette Syndrome
- Vesico-Ureteral Reflux

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