

Glial-Derived Neurotrophic Factor Active Protein | GDNF active protein

Recombinant Human Glial-Derived Neurotrophic Factor

CATALOG #
AAA38153

HOST
E Coli

PRODUCT SYNONYMS

Glial-Derived Neurotrophic Factor; Recombinant Human Glial-Derived Neurotrophic Factor; GDNF Human; Glial-Derived Neurotrophic Factor Human Recombinant; ATF1; ATF2; HFB1-GDNF; GDNF; GDNF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	GDNF was lyophilized after dialysis against 10mM sodium citrate and 150mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MSPDKQMAVL PRRERNRQAA AANPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCDAAETTY DKILKNLSRN RRLVSDKVGQ ACCRPIAFDD DLSFLDDNLV YHILRKHSAK RCGCI
Sequence Length	211
Solubility	It is recommended to reconstitute the lyophilized Glial Derived Neurotrophic Factor in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, calculated by the dose-dependant dopamin uptake in rat mesencephalic cultures was found to be 5-10 ng/ml, corresponding to a specific activity of 100,000-200,000Units/mg.
Preparation and Storage	Lyophilized Glial-derived Neurotrophic Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GDNF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDNF active protein	Description: Glial derived Neurotrophic Factor Human Recombinant produced in E Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 135 amino acids and having a total molecular mass of 30,360 Dalton. GDNF is purified by proprietary chromatographic techniques. Introduction: GDNF promotes the survival and differentiation of dopaminergic neurons in culture, and is 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.GDNF enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake.
Product Categories/Family for GDNF active protein	Cytokines and Growth Factors; Neurotrophins; GDNF

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503975
NCBI GeneID	2668

NCBI Accession #	NP_000505.1
NCBI GenBank Nucleotide #	NM_000514.3
UniProt Accession #	P39905; O95448; O95449; O95986; Q6FH33; Q96L44; Q9UD32; Q9UD33; Q9UMV2; Q9UP67; Q9UP97; B7WPK7 ; AAB33493; AAB33494
Molecular Weight	18,123 Da
NCBI Official Full Name	glial cell line-derived neurotrophic factor isoform 1 preproprotein
NCBI Official Synonym Full Names	glial cell derived neurotrophic factor
NCBI Official Symbol	GDNF
NCBI Official Synonym Symbols	ATF1; ATF2; HSCR3; HFB1-GDNF
NCBI Protein Information	glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor
UniProt Protein Name	Glial cell line-derived neurotrophic factor
UniProt Gene Name	GDNF
UniProt Synonym Gene Names	hGDNF; ATF
UniProt Entry Name	GDNF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-gdnf-active-protein/glial-derived-neurotrophic-factor/38153>