

GDNF active protein

Mouse GDNF

CATALOG # AAA79245	HOST E Coli	REACTIVITY Mouse
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PRODUCT SYNONYMS

GDNF; Mouse GDNF; Recombinant Murine GDNF; GDNF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Mouse
Purity/Purification	> 98% by SDS-PAGE and HPLC analyses
Form/Format	Lyophilized (10mM Sodium Citrate)
Sequence	MSPDKQAAAL PRERERNQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHS AK RCGCI
Sequence Length	240
Endotoxin Level	< 0.1 ng/ug or protein (<1EU/ug)
Structural Information	Disulphide-linked homodimer
Biological Activity	The ED50 was determined by the proliferation of rat C6 cells is <= 0.2 ng/ml, corresponding to a specific activity of >= 5 x 106 units/mg.
Length (aa)	135
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C. For extended storage, it is recommended to further dilute in buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at 4°C. Reconstituted working aliquots are stable at 2°C to 8°C and -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for GDNF active protein	GDNF is a disulfide-linked homodimeric neurotrophic factor structurally related to Artemin, Neurturin and Persephin. These proteins belong to the cysteine-knot superfamily of growth factors that assume stable dimeric protein structures. GDNF signals through a multicomponent receptor system, composed of a RET and one of the four GFRalpha (alpha1-alpha4) receptors. GDNF specifically promotes dopamine uptake and survival and morphological differentiation of midbrain neurons. Using Parkinson's disease mouse model, GDNF has been shown to improve conditions such as bradykinesia, rigidity, and postural instability. The functional human GDNF ligand is a disulfide-linked homodimer, of two 15 kDa polypeptide chains called monomers. Each monomer contains seven conserved cysteine residues, one of which (Cys 101) is used for inter-chain disulfide bridging and the others are involved in intramolecular ring formation known as the cysteine knot configuration.
Product Categories/Family for GDNF active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	7110601
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NCBI GeneID	14573
NCBI Accession #	NP_034405.1
NCBI GenBank Nucleotide #	NM_010275.2
UniProt Accession #	P48540 ; O09058 ; P70446 ; P97919 ; P97920 ; Q6LEL9
Molecular Weight	15.1 kDa (monomere)
NCBI Official Full Name	glial cell line-derived neurotrophic factor
NCBI Official Synonym Full Names	glial cell line derived neurotrophic factor
NCBI Official Symbol	Gdnf
NCBI Official Synonym Symbols	AI385739
NCBI Protein Information	glial cell line-derived neurotrophic factor; ATF; mGDNF; astrocyte-derived trophic factor
UniProt Protein Name	Glial cell line-derived neurotrophic factor
UniProt Gene Name	Gdnf
UniProt Synonym Gene Names	mGDNF; ATF
UniProt Entry Name	GDNF_MOUSE

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://stage.aaabiotech.com/e-coli-mouse-active-protein/gdnf/79245>