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GDNF Recombinant Protein (Animal Free)

Cat. No.: 40-774

NO IMAGE AVAILABLE

GDNF Recombinant Protein (Animal Free)

Specifications

SPECIES:	Mouse, Rat
SOURCE SPECIES:	E. coli
SEQUENCE:	MSPDKQAAAL PRRERNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI

Properties

PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses.
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The recombinant protein is stable for at least 2 years from date of receipt at -20˚C. Reconstituted protein is stable for at least 3 months when stored in working aliquots with a carrier protein at -20˚C. As with any protein, exposing the recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

OFFICIAL SYMBOL:	Gdnf
ALTERNATE NAMES:	Glial-Derived Neurotrophic Factor, ATF-1
GENE ID:	14573

Background and References

BACKGROUND:	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 GFRα (α1-α4) receptors. GDNF specifically promotes dopamine uptake and survival, and morphological differentiation of midbrain neurons. Using a Parkinson's disease mouse model, GDNF has been shown to improve conditions such as bradykinesia, rigidity, and postural instability. The functional murine GDNF ligand is a disulfide-linked homodimer consisting of two 15.1 kDa polypeptide chains called monomers. Each monomer contains seven conserved cysteine residues, including Cys-101, which is used for inter-chain disulfide bridging, and others that are involved in the intramolecular ring formation known as the cysteine-knot configuration. The calculated molecular weight of Recombinant Murine GDNF is 30.2 kDa.