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32-20143: Recombinant Human GDNF(Discontinued)

Reactivity : Human, Monkey, Mouse, Rat
Alternative Name : Glial-Derived Neurotrophic Factor, ATF-1

Description

Source:E.coliGDNF is a disulfide-linked, homodimeric neurotrophic factor structurally related to Artemin, Neurturin and Persephin.Â These proteins belong to the cysteine-knot superfamily of growth factors that assume stable dimeric protein structures.Â GDNF signals through a multicomponent receptor system, composed of a RET and one of the four GFRAlpha (Alpha 1-Alpha 4) receptors.Â GDNF specifically promotes dopamine uptake and survival, and morphological differentiation of midbrain neurons.Â Using a ParkinsonÂ's disease mouse model, GDNF has been shown to improve conditions such as bradykinesia, rigidity, and postural instability.Â The functional human GDNF ligand is a disulfide-linked homodimer consisting of two 15 kDa polypeptide chains called monomers.Â 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 Human GDNF is 30.4 kDa.

Product Info

Amount : 2 µg / 10 µg
Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : MSPDKQMAVL PRRERNRQAA AANPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCDAAETTY DKILKNLSRN RRLVSDKVGQ ACCRPIAFDD DLSFLDDNLV YHILRKHSAK RCGCI

Application Note

Determined by a cell proliferation assay using SH-SY5Y cells. The expectedÃ□Â $ED_{50}$for this effect is 1.0-10.0 ng/ml.Ã□Â

For Research Use Only. Not for use in diagnostic/therapeutics procedures.