

32-20146: Animal-Free Recombinant Murine GDNF(Discontinued)

 Reactivity :
 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. 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 (Alpha 1-Alpha 4) receptors. GDNF specifically promotes dopamine uptake and survival, and morphological differentiation of midbrain neurons. Using a ParkinsonÂ'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.

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 :
 MSPDKQAAAL PRRERNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI

Application Note

TheÃ \square ED₅₀Ã \square 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.