
Product Data Sheet

Product Name: GDNF Mouse
 Cat. No.: GP20298
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	ATF1; ATF2; HFB1-GDNF; GDNF.		
Amino Acid Sequence	MSPDKQAAL PRRENRRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI.		
Solubility	It is recommended to reconstitute the lyophilized Glial Derived Neurotrophic Factor in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	GDNF was lyophilized with no additives.		

Introduction

GDNF promotes the survival and differentiation of 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 neurons and increases their high-affinity uptake.

Biological Activity

The ED₅₀ as determined by the dose-dependent proliferation of C6 cells, is 0.8-0.12μg/ml.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Lyophilized Glial-derived Neurotrophic Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution GDNF should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Glial derived Neurotrophic Factor Mouse Recombinant produced in E.Coli is a non-glycosylated homodimer containing 2 x 135 amino acids and having a total molecular mass of 30.2kDa. GDNF is purified by proprietary chromatographic techniques.

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