9051 Mira Mesa Blvd, #910094
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GDNF Mouse

Glial-Derived Neurotrophic Factor Mouse Recombinant
NTR0024

Product Overview

Name	GDNF Mouse
Description	
Glial-Derived Neurotrophic Factor Mouse Recombinant	
Accession (Primary)	P48540
Synonyms	
ATF1, ATF2, HFB1-GDNF, GDNF.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GDNF was lyophilized with no additives.	
Stability	
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.	
Purity	
Greater than 98.0% as determined by analysis by SDS-PAGE.	
Amino acid sequence	

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MSPDKQAAL PRRENRNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI.

Biological Activity

The ED 50 as determined by the dose-dependent proliferation of C6 cells, is 0.8-0.12 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized Glial Derived Neurotrophic Factor in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GDNF Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P48540)