9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GDNF Rat

Glial-Derived Neurotrophic Factor Rat Recombinant
NTR0025

Product Overview

Name	GDNF Rat
Description	
Glial-Derived Neurotrophic Factor Rat Recombinant	
Accession (Primary)	Q07731
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 from a sterile solution containing 1xPBS, pH 7.4.	
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 HPLC analysis and by SDS-PAGE.	
Amino acid sequence	

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SPDKQAALP RRENRNRQAAA ASPENSRGKG RRGQRGKNRG CVLTAIHLNV TDLGLGYETK EELIFRYCSG SCESAETMYD KILKNLSRSR RLTSDKVGQA CCRPVAFDDD LSFLDDNLVY HILRKHSAKR CGCI

Biological Activity

Recombinant rat GDNF has full biological activity when compared to standards. The ED50, determined by a cell proliferation assay using rat C6 cells, is less than 0.2ng/ml corresponding to a specific activity of more than 5,000,000IU/mg.

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

Target Information: (Q07731)