

## Overview

<b>Synonyms</b>	Glial-Derived Neurotrophic Factor, ATF-1
<b>Description</b>	<b>Glial-Derived Neurotrophic Factor</b> , also known as GDNF and ATF-1, is a neurotrophic factor belonging to the TGF-beta family. It is expressed in both central nervous system (CNS) and non-CNS tissues. GDNF signals through a receptor system composed of a RET and one of the four GFR alpha receptors. It promotes the survival and differentiation of dopaminergic neurons, and increases their high-affinity dopamine uptake. In a mouse Parkinson's Disease model, GDNF has been shown to improve bradykinesia, rigidity, and postural instability. GDNF has also been shown to regulate kidney development, spermatogenesis and affect alcohol consumption.
<b>Accession No</b>	P48540
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> <8µg /ml, measured in a bioassay using C6 cells.
<b>Sequence</b>	MSPDKQAAAL PRRERNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLRSR RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI

## Properties

<b>Measured Molecular Weight</b>	17-22 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>murine GDNF</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Murine GDNF should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only

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