

## Recombinant Human GDNF

<b>CATALOG #:</b>	4097-10	10 µg
	4097-50	50 µg
	4097-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	> 95 % by SDS-PAGE and HPLC analyses Endotoxin level is <0.01 ng per µg or <0.1EU/ µg of GDNF.	
<b>MOL. WEIGHT:</b>	30.1 kDa	
<b>FORM:</b>	Lyophilized from 10 mM Sodium Citrate + 150 mM NaCl, pH 4.0.	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized human GDNF is best-stored desiccated below 0°C. Reconstituted human GDNF should be stored at working aliquots at -20°C.

### DESCRIPTION:

Human GDNF (Glial-Derived Neurotrophic Factor) is a 30.1 kDa protein that specifically promotes dopamine uptake and survival of midbrain neurons. GDNF is a disulphide-linked homodimer, formed by two identical 134 amino acids subunits.

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> as determined by the dose-dependent dopamine uptake by rat ventral mesencephalic cultures was found to be in the range of 4-8 ng/ml.

**FOR RESEARCH USE ONLY! Not to be used in human subjects.**

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies