

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant GDNF, Human

Catalog Number: BK0359-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Glial cell line-derived neurotrophic factor (GDNF) is a neurotrophic factor belonging to the TGF-beta super family and is necessary for neuron survival and phenotypic maintenance in the central and peripheral nervous systems. G-DNF has the potential to support the differentiation and survival of many neuron sub-populations, especially dopaminergic neurons and motor neurons, as well as Purkinje cells and sympathetic neurons. Sertoli cells, type 1 astrocytes, Schwann cells, neurons, pinealocytes and skeletal muscle cells are known to express GDNF in human. GDNF has been shown to interact with GFRA2 and GDNF family receptor alpha 1. Mutations in this gene may be associated with Hirschsprung's disease, Parkinson's disease and amyotrophic lateral sclerosis (ALS).

The recombinant human G-DNF expressed in E.coli is a disulfide-linked homo-dimer, with an apparent molecular weight of 17 kDa.

Molecular Weight:

17 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 5 µg/ml, measured in a proliferation assay using C6 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MSPDKQMAVLPRRERN-
RQAAAANPENSRGKGRRGQRGKNRGCVL-
TAIHLNVTDLGLGYETKEELIFRYCSG-
SCDAAETTYDKILKNLSRNRLVSDKVGQAC-
CRPIAFDDDL SFLDDNLVYHILRKHS AKRCGCI

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human Glial cell line-derived neurotrophic factor (G-DNF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhG-DNF should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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