

Rev04
Update: Jan,19,2024

DATASHEET

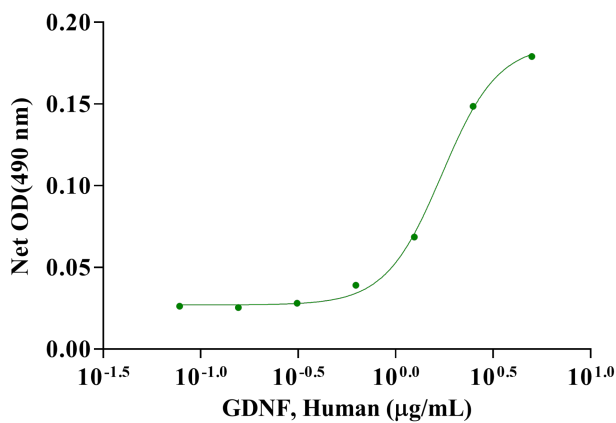
GDNF, Human

Cat. No.: Z03387

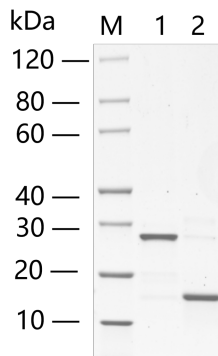
Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met. GDNF (Ser78-Ile211) Accession # P39905
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 5.0 μ g/ml, measured in a proliferation assay using C6 cells.
Expression System	E. coli
Apparent Molecular Weight	~17 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



ED₅₀ < 5.0 µg/ml, measured in a proliferation assay using C6 cells.



Lane 1: 2 µg of GDNF, Human, non-reducing (NR)

Lane 2: 2 µg of GDNF, Human, reducing (R)

> 95% as analyzed by SDS-PAGE

Background

Target Background : 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 subpopulations, 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.

Synonyms : Glial-Derived Neurotrophic Facto; ATF-1; ATF2; HFB1-GDNF; HSCR3

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

生产商：南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China

