

GDNF Protein, Mouse, Recombinant

General Information

Synonyms:	HSCR3;Glial-Derived Neurotrophic Facto;ATF-1;HFB1-GDNF;ATF2
Protein Construction:	Met77-Ile211
Species:	Mouse
Expression Host:	CHO Cells
Accession:	P48540
Molecular Weight:	17~22 kDa (Reducing conditions)

QC Testing

Biological Activity:	ED 50 < 8.0 µg/ml, measured in a bioassay using C6 cells.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Glial-Derived Neurotrophic Factor, 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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481