

GDNF Protein, Human, Recombinant V2

General Information

Synonyms:	HFB1-GDNF;HSCR3;glial cell derived neurotrophic factor;ATF1;ATF2
Protein Construction:	Ser78-Ile211
Species:	Human
Expression Host:	E. coli
Accession:	P39905-1
Molecular Weight:	15.06 kDa (Predicted and reducing conditions)

QC Testing

Biological Activity:	Immobilized Human GDNF, No Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Human GFR alpha 1, His Tag with the EC50 of 5.0 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

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 cell line-derived neurotrophic factor (GDNF) is a 134 amino acid protein belonging in the GDNF family ligands (GFLs). GDNF was originally isolated from rat glial cell lines and identified as a neurotrophic factor with the ability to promote dopamine uptake within midbrain dopaminergic neurons.

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