GDNF
Glial-Derived Neurotrophic Factor
human, recombinant, E. coli

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<td>PR-422</td>
<td>10 µg</td>
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For in vitro use only
Quality guaranteed for 12 months
Store at -20°C

Avoid freeze / thaw cycles

Form
Lyophilized. GDNF was lyophilized after dialysis against 10 mM sodium citrate and 150 mM NaCl.

Solubility
It is recommended to reconstitute the lyophilized GDNF in sterile bidest H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Activity
ED_{50} < 5-10 ng/ml, calculated by the dosedependent dopamine uptake in rat mesencephalic cultures.

Endotoxin
Less than 0.1 ng/µg (IEU/µg) of GDNF.

Molecular Weight
30 kDa

Purity
≥ 95% by SDS-PAGE and RP-HPLC

Description
This factor was found initially in conditioned medium of the rat B49 glial cell line. GDNF is a disulfide-bonded homodimeric glycosylated protein of 134 amino acids. The proteins contain seven conserved cysteine residues in the same relative spacing found in all members of the TGF-β superfamily of proteins. The human GDNF gene has been mapped to chromosome 5p13.1-p13.3. Related factors are Neurturin, Persephin, and Artemin (cat.# PR-404). Collectively they are being referred to as GDNF family ligands. Recombinant human Glial-Derived Neurotrophic Factor (GDNF) produced in E. coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 135 amino acids and having a total molecular mass of 30.36 kDa. Recombinant GDNF is purified by proprietary chromatographic techniques.

Selected References: