

**Product:** Glial-derived Neurotrophic Factor, Human Recombinant  
**Catalog #:** 11-GDNF  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Human 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 30,360 Dalton.  
rHuGDNF is purified by proprietary chromatographic techniques.  
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Pro-Asp-Lys.

**SOURCE:** *Escherichia Coli*.

**PURITY:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of rHuGDNF.

**DIMERS & AGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis

**FORM:** Purified in 10 mM sodium citrate and 150mM NaCl.

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm.  
2. Analysis by RP-HPLC, using a standard solution of GDNF as a Reference Standard.

**CONCENTRATION:** 0.1 mg/ml

**BIOLOGICAL ACTIVITY:** rHuGDNF is fully biologically active when compared to standard.  
The ED50, calculated by the dose-dependant dopamin uptake in rat mesencephalic cultures was found to be 5-10 ng/ml.

**STORAGE:** -20°C (aliquot), avoid repeated freeze and thaw cycles

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