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GDNF
Recombinant Human GDNF

Catalog No.	CRG400A	**Quantity:**	2 µg
	CRG400B		10 µg
	CRG400C		1.0 mg
	CRG400E		100 µg

Alternate Names: Glial cell line-derived Neurotrophic Factor, ATF1, ATF2, HFB1-GDNF

Description: Glial Cell line-Derived Neurotrophic Factor (GDNF) is a neurotrophic factor that is closely related to other neurotrophic factors, such as Neurturin, Persephin, and Artemin, by a common structural feature called the cysteine-knot. GDNF signals through a multicomponent system of receptors that includes RET and GFRα1-4, to promote dopamine uptake, survival and differentiation of neurons.

Gene ID: 2668

UniProt ID: P39905

Source: *E. coli*

Molecular Weight: 15.2/30.4 kDa (135/270 aa) dimer

Formulation: Lyophilized from a sterile filtered solution in 10 mM sodium citrate, 100 mM Sodium Chloride, pH 4.0

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg by kinetic LAL

Biological Activity: ED_{50} ≤ 3.0 µg/ml, determined by the dose-dependent proliferation of C6 cells.

Specific Activity: ≥ 3.3 x 10^2 U/mg

Amino Acid Sequence: MSPDKQMAVL PRRERNRQAA AANPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCDAAETTY DKILKNLSRN RRLVSDKVGQ ACCRPIAFDD DLSFLDDNLV YHILRKHSAK RCGCI

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: **Upon receipt**, store as supplied at -20°C to -80°C for up to one year. **Upon reconstitution**, the preparation is stable for up to 1 month at 2-8 °C, 3 months at -20°C to -80°C. **For long term storage** dilute to working aliquots containing 0.1% BSA and store at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

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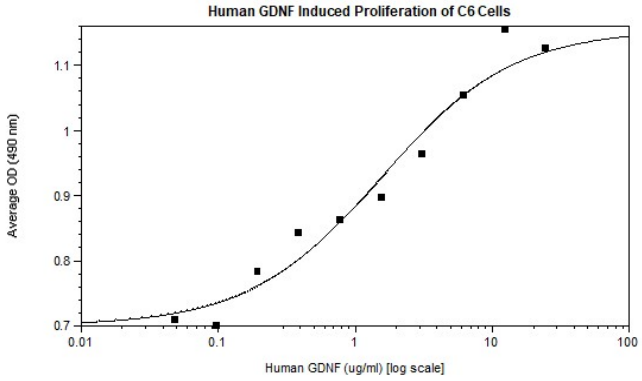

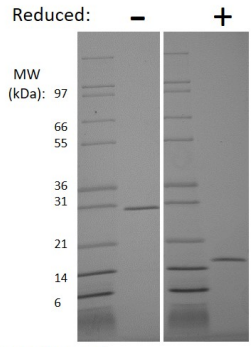

Human GDNF Gel
1 ug of protein was run under (-) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human GDNF is predicted to be a disulfide linked homodimer having a total MW of 30.4 kDa (each subunit 15.2 kDa).

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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