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Gdnf
Recombinant Rat GDNF

Catalog No.	CRR305A	**Quantity:**	2 µg
	CRR305B		100 µg
	CRR305C		1 mg

Alternate Names: Astrocyte-derived trophic factor, ATF-1

Description: Glial cell-derived neurotrophic factor (GDNF) is a neurotrophic factor that signals through a multicomponent receptor system to activate receptor tyrosine kinase RET signaling. GDNF promotes dopamine uptake, prevents motor neuron apoptosis, and supports the survival and differentiation of neurons.

Gene ID: 25453

UniProt ID: Q07731

Source: *E. coli*

Molecular Weight: Dimer, 15.1/30.1 kDa (135/270 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 10mM sodium phosphate, pH 7.5

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

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: Typical ED50 < 0.1 µg/m, determined by dose-dependent proliferation of C6 cells.

Amino Acid Sequence: MSPDKQAAAL PRRERNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCEAAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDSLV YHILRKHSAK RCGCI

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX**. Allow several minutes for reconstitution.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

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Figure 1: C6 cells were cultured with 0 to 5 µg/ml Rat GDNF. Cell proliferation was measured after 7 days and the linear portion of the curve was used to calculate the ED50.

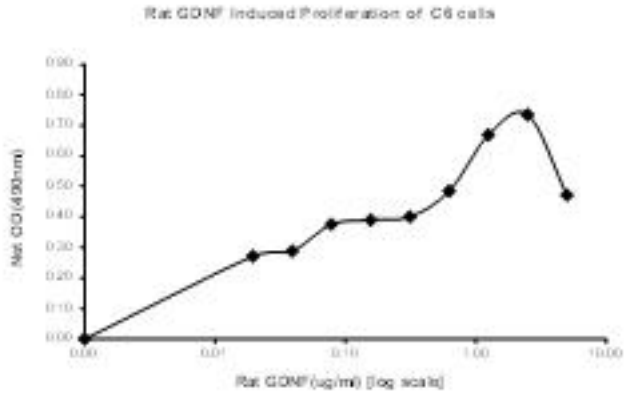
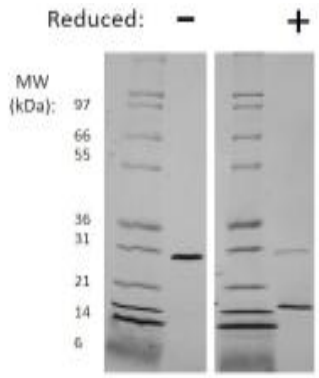


Figure 2:



Rat GDNF QC Gel

Figure: 1 ug of protein was run under (-) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Rat GDNF is predicted to be a disulfide linked homodimer having a total MW of 30.1 kDa.

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