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Gdnf
Recombinant Mouse Glial Derived Neurotrophic Factor

Catalog No.	CRM014A	**Quantity:**	2 µg
	CRM014B		10 µg
	CRM014C		1 mg
	CRM014D		100 µg

Alternate Names: GDNF, astrocyte-derived trophic factor, ATF1, ATF2, HSCR3, 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.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Gene ID: 2668

UniProt ID: P48540

Source: *E. coli*

Molecular Weight: Dimer, 15.1/30.2 kDa (135/270 aa)

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

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

Endotoxin Level: ≤ 0.1 EU/µg, by kinetic LAL

Amino Acid Sequence: MSPDKQAAL PRRERNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI

Reconstitution: Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. **DO NOT VORTEX.** It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

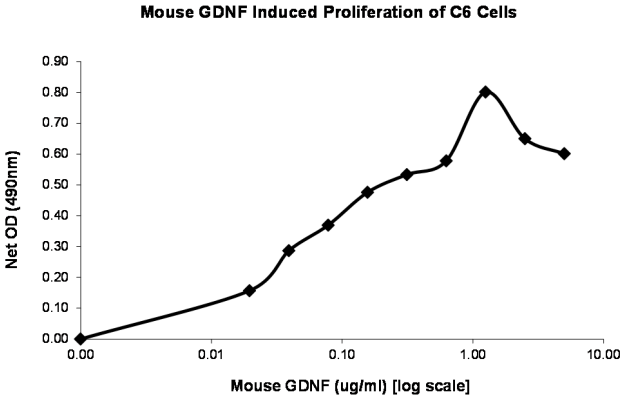
Storage & Stability: Store as supplied at -20°C to -80°C. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended to add a carrier protein such as 0.1% HSA or BSA for long term storage. This depends upon the particular application employed. **Avoid repeated freeze-thaw cycles.**

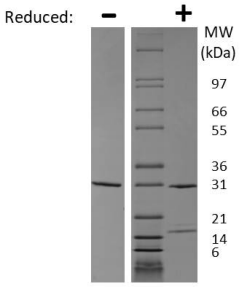
Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com

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





Mouse GDNF Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse GDNF is a dimer with a predicted MW of 30.2 kDa (each monomer is 15.1 kDa).

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