

Glial-Derived Neurotrophic Factor Human Recombinant

Item Number	rAP-2674
Synonyms	ATF1, ATF2, HFB1-GDNF, GDNF.
Description	Glial derived Neurotrophic Factor Human Recombinant produced in E.Coli is a non-glycosylated disulfide-linked homodimer containing 2 x 135 amino acids and having a total molecular mass of approximately 30kDa. GDNF is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P39905
Amino Acid Sequence	MSPDKQMAVL PRRERNRQAA AANPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCDAAETTY DKILKNLSRN RRLVSDKVGQ ACCRPIAFDD DLSFLDDNLV YHILRKHS AK RCGCI.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Glial-derived Neurotrophic Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDNF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	GDNF was lyophilized from a 0.2µm filtered concentrated solution in 1×PBS, pH 7.4. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Glial Derived Neurotrophic Factor in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 was determined by the proliferation of rat C6 cells is < 0.1 ng/ml, corresponding to a specific activity of > 1.0x10 ⁷ units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**