Active Recombinant Mouse Gdnf Protein

Cat. No. Gdnf-278G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gdnf Protein without tag was expressed in CHO.
Species	Mouse
Source	CHO
Description	Glial-Derived Neurotrophic Factor, also known as GDNF and ATF-1, is a neurotrophic factor belonging to the TGF-beta family. It is expressed in both central nervous system (CNS) and non-CNS tissues. GDNF signals through a receptor system composed of a RET and one of the four GFR alpha receptors. It promotes the survival and differentiation of dopaminergic neurons, and increases their high-affinity dopamine uptake. In a mouse Parkinson's Disease model, GDNF has been shown to improve bradykinesia, rigidity, and postural instability. GDNF has also been shown to regulate kidney development, spermatogenesis and affect alcohol consumption.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 8μg/mL, measured in a bioassay using C6 cells.
Molecular Mass	17-22 kDa, observed by reducing SDS-PAGE.
AA Sequence	MSPDKQAAALPRRERNRQAAAASPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLG LGYETKEELIFRYCSGSCESAETMYDKILKNLSRSRRLTSDKVGQACCRPVAFDDDL SFLDDNLVYHILRKHSAKRCGCI

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant murine GDNF remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Murine GDNF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Gdnf glial cell line derived neurotrophic factor [Mus musculus]
Official Symbol	Gdnf
Synonyms	GDNF; glial cell line derived neurotrophic factor; glial cell line-derived neurotrophic factor; ATF; mGDNF; neurotrophic factor; astrocyte-derived trophic factor; AI385739;
Gene ID	14573
mRNA Refseq	NM_010275
Protein Refseq	NP_034405
UniProt ID	P48540

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