

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	<p>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.</p>
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	<p>MSPDKQAAALPRRERNRQAAAASPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLG LGYETKEELIFRYCSGSCESAETMYDKILKNLSRSRRLTSDKVGQACCRPVAFDDDL SFLDDNLVYHILRKHS AKRCGCI</p>

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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 ddH ₂ O 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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