DATASHEET

Recombinant Murine Glial Cell Line-derived Neurotrophic Factor

CAT. NO. ARP6716

KEY FEATURES

Target	Glial Cell Line-derived Neurotrophic Factor	Source/Expression System	E.coli
Reactivity	Murine	Aapplication	SDS-PAGE
Abbreviation	rMuGDNF		

BACKGROUND

Glial cell-derived neurotrophic factor is a founding member of the GDNF family of ligands (GFL) and has been shown to interact with GFRA2 and GDNF family receptor alpha 1. It is a small protein that potently promotes the survival and morphological differentiation of various neuronal. It may also modulate local neuronal effects in distal regions of the motor neuron. Recombinant murine GDNF is a homodimeric protein consisting of two 134 amino acid non-glycosylated polypeptide chains and it shares 99 % and 93 % a.a. sequence identity with rat and human GDNF.

PRODUCT OVERVIEW

Molecular Weight	Approximately 29.9 kDa, a homodimeric protein consisting of two 134 amino acid non-glycosylated polypeptide chains.
Accession	P48540 Ser78-Ile211
A.A. Sequence	SPDKQAAALPRRERNRQAAAASPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLGLGYETKEELIFRYCSGSCESAET MYDKILKNLSRSRRLTSDKVGQACCRPVAFDDDLSFLDDNLVYHILRKHSAKRCGCI
Purity	＞96% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using rat C6 cells is less than 0.2 ng/ml, corresponding to a specific activity of ≥5.0×10^6 IU/mg
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 150 mM NaCl, 0.05% (v/v) Tween-20, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rMuGDNF protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

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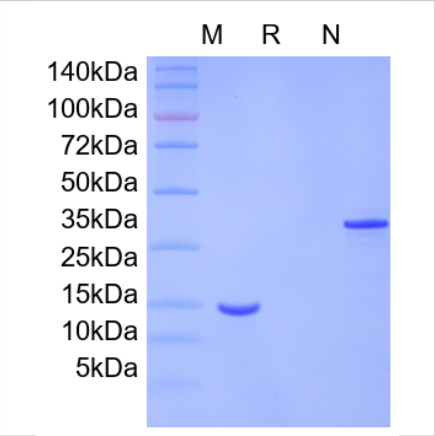
DATA



SDS-PAGE

STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.