
Product Data Sheet

Product Name: CDNF Human
 Cat. No.: GP20130
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Cerebral neurotrophic factor; arginine-rich; mutated in early stage tumors-like 1; Conserved neurotrophic factor; ARMET-like protein 1; ARMETL1.		
Amino Acid Sequence	QEAGGRPGAD CEVCKEFLNR FYKSLIDRGV NFSLDTIEKE LISFCLDTKG KENRLCYLGG ATKDAATKIL SEVTRPMSVH MPAMKICEKL KKLDSSQICEL KYEKTLDLAS VDLRKMRVAE LKQILHSWGE ECRACA EKTD YVNLIQELAP KYAATHPKTE L		
Solubility	It is recommended to reconstitute the lyophilized CDNF in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	CDNF protein was lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.		

Introduction

CDNF is a member of the ARMET family and acts as a trophic factor for neurons. CDNF inhibits the (6-OHDA)-induced degeneration of neurons. When CDNF controlled after 6-OHDA-lesioning, it reestablishes the function and inhibits the degeneration of neurons in substantia nigra. CDNF is universally expressed in neuronal and non-neuronal tissues. The highest levels in the brain are found in the optic nerve and corpus callosum.

Biological Activity

The ED₅₀ as determined by its ability to stimulate the proliferation of rat C6 cells is 15-25µg/ml, corresponding to a specific activity of 40-67units/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Lyophilized CDNF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CDNF 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.

Background

CDNF Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 161 amino acids and having a molecular mass of 18.5kDa. The CDNF is purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA