
Product Data Sheet

Product Name: NRN1 Human
 Cat. No.: GP20776
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Neuritin 1; NRN1; NRN; dj380B8.2; Neuritin.		
Amino Acid Sequence	AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSC TV TALTDCQEGA KDMWDKLRKE SKNLNIQGS L FELCGSGN.		
Solubility	It is recommended to reconstitute the lyophilized NRN1 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The NRN1 was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH 7.4.		

Introduction

Neuritin (NRN1) is a neurotrophic factor, which is expressed in response to induction of neuronal activity by NGF, BDNF, NT3 and other neural stimulators. NRN1 is expressed principally in postmitotic-differentiating neurons of the developing nervous system and in neuronal structures related to synaptic plasticity in the adult nervous system. NRN1 functions as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation.

Biological Activity

The ED50 as determined by a cell proliferation assay using rat C6 cells is less than 25ng/ml, corresponding to a specific activity of $> 4.0 \times 10^4$ IU/mg.

Stability

Lyophilized NRN1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution NRN1 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

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

carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Recombinant Human NRN1 produced in E.coli cells is a non-glycosylated, homodimeric protein containing 2x88 amino acid chains and having a molecular mass of 19.4kDa. The NRN1 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