



Neuritin-1, human recombinant (rhuNRN)

Catalog No: 99952
Lot No: XXXXX
Source: *E. coli*
Synonyms: Neuritin, NRN1, NRN, dJ380B8.2

Background

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 post-mitotic 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.

Description

Recombinant Human NRN1, produced in *E. coli* cells, is a non-glycosylated, homodimeric protein containing two 88 amino acid chains. It has a molecular mass of 19.4 kDa. The NRN1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered, white, lyophilized (freeze-dried) powder.

Formulation

The NRN1 was lyophilized from a 0.2 µm filtered concentrated solution in 1x PBS (pH 7.4).

Solubility

It is recommended to reconstitute the lyophilized NRN1 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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

Amino Acid Sequence

AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSCTV TALTDCQEGA KDMWDKLRKE SKNLNIQGSL
FELCGSGN

Activity

The ED₅₀, as determined by a cell proliferation assay using rat C6 cells, is less than 25 ng/ml, corresponding to a specific activity of > 4.0 x 10⁴ IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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