9051 Mira Mesa Blvd, #910094
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NRN1 Human

Neuritin-1 Human Recombinant
NTR0056

Product Overview

Name	NRN1 Human
Description	
Neuritin-1 Human Recombinant	
Accession (Primary)	Q9NPD7
Synonyms	
Neuritin 1, NRN1, NRN, dJ380B8.2, Neuritin.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The NRN1 was lyophilized from a 0.2 μm filtered concentrated solution in 1×PBS, pH 7.4.	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSCTV TALTDCQEGA KDMWDKLRKE SKNLNIQGSL FELCGSGN.	
Biological Activity	
The ED 50 as determined by a cell proliferation assay using rat C6 cells is less than 25ng/ml, corresponding to a	

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specific activity of > 4.0 × 10 4 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized NRN1 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

NRN1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NPD7)