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DATASHEET

Recombinant human Neuritin-1 / NRN1 protein

Product overview

Name	Recombinant human Neuritin-1 / NRN1 protein
Cat No	HB7631
Biological description	Neurotrophic factor expressed in response to induction of neuronal activity by NGF, BDNF, NT3 and other neural stimulators.
Species of origin	Functions as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation. human
Alternative names	Recombinant Human Neuritin-1, Neuritin 1, NRN1, NRN, dJ380B8.2, Neuritin.
Purity	>95%
Description	Neurotrophic factor

Biological Data

Application notes	The ED_{50} = <25ng/ml (determined by a cell proliferation assay using rat C6 cells), corresponding to a specific activity of $>4.0 \times 10^4$ IU/mg.
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Solubility & Handling

Solubility overview	To make a stock solution, reconstitute the lyophilized NRN1 in sterile 18M Ω cm water at a concentration $> 100\mu\text{g/ml}$, which can then be diluted to make a working solution
Handling	<ul style="list-style-type: none">• Solutions should be made in sterile deionized water (not less than $100\mu\text{g/ml}$). This solution can then be further diluted with other aqueous solutions.• Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.• For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

UniProt ID	Q9NPD7
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	Lyophilized from a $0.2\mu\text{m}$ filtered concentrated solution in PBS (pH 7.4)

References

Neuritin 1 promotes neuronal migration

Zito A *et al* (2014) Brain Struct Funct 219(1)

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Impact of Neuritin 1 (NRN1) polymorphisms on fluid intelligence in schizophrenia

Chandler D *et al* (2010) Am J Med Genet B Neuropsychiatr Genet 153B(2)

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19569075

Neuritin, a neurotrophic factor in nervous system physiology

Zhou S *et al* (2014) Curr Med Chem 21(10)

PubMedID

24350851
