Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Recombinant human Neuritin-1 / NRN1 protein

Product overview

Name Recombinant human Neuritin-1 / NRN1 protein

Cat No HB7631

Biological descriptionNeurotrophic factor expressed in response to induction of neuronal activity by NGF, BDNF, NT3 and

other neural stimulators.

Functions as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation.

Species of origin

humar

Alternative names Re

Recombinant Human Neuritin-1, Neuritin 1, NRN1, NRN, dJ380B8.2, Neuritin.

Purity >95%

Description Neurotrophic factor

Biological Data

Application notes The $ED_{50} = \langle 25 \text{ ng/ml} \rangle$ (determined by a cell proliferation assay using rat C6 cells), corresponding to a

specific activity of >4.0 x 10⁴ IU/mg.

Solubility & Handling

Solubility overview

To make a stock solution, reconstitute the lyophilized NRN1 in sterile $18M\Omega$ cm water at a concentration > 100μ g/ml, which can then be diluted to make a working solution

Handling

- Solutions should be made in sterile deionized water (not less than 100 μg/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.

Shipping Conditions Important Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 0.2µm filtered concentrated solution in PBS (pH 7.4)

References

Neuritin 1 promotes neuronal migration

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

PubMedID 23212301

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)

PubMedID 19569075

Neuritin, a neurotrophic factor in nervous system physiology

Zhou S *et al* (2014) Curr Med Chem 21(10) **PubMedID**24350851