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# **DATASHEET**

Recombinant human Neurturin / NRTN protein

#### **Product overview**

Name Recombinant human Neurturin / NRTN protein

Cat No HB9447 Species of origin human

Alternative names Recombinant Human Neurturin, Neurturin.

Purity >96%

**Description** GDNF-related trophic factor

### **Biological Data**

Application notes Fully biologically active when compared to standard. The biologically active as determined by its

binding ability in a functional ELISA.

## **Solubility & Handling**

**Solubility overview** To make a stock solution, reconstitute in sterile  $18M\Omega cm$  water at a concentration > 0.5 mg/ml, which

can then be diluted to make a working solution

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.

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 Q99748 Source E. Coli.

**Appearance** White lyophilized powder (sterile filtered & freeze-dried)

Formulation Lyophilized from a 0.2 µm filtered solution containing sodium citrate (30 mM, pH 4.2), NaCl (0.4M) and

0.02 % Tween-20

### References

Neurturin and glial cell line-derived neurotrophic factor receptor-beta (GDNFR-beta), novel proteins related to GDNF and GDNFR-alpha with specific cellular patterns of expression suggesting roles in the developing and adult nervous system and in periphera

Widenfalk J et al (1997) J Neurosci 17(21) **PubMedID**9334423

Role of neurturin in spontaneous itch and increased nonpeptidergic intraepidermal fiber density in a mouse model of

### psoriasis

Sakai K et al (2017) Pain 158(11)

**PubMedID** 28825602

Neurturin shares receptors and signal transduction pathways with glial cell line-derived neurotrophic factor in sympathetic neurons

Creedon DJ et al (1997) Proc Natl Acad Sci U S A 94(13)

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