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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 > 0.5mg/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. |
| 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)

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 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) **PubMedID** 9192684