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## DATASHEET

### Recombinant human Neuregulin-4 / NRG4 protein

#### Product overview

<b>Name</b>	Recombinant human Neuregulin-4 / NRG4 protein
<b>Cat No</b>	HB9996
<b>Biological description</b>	Member of the EGF family of proteins which is highly and preferentially expressed in healthy adipocytes.  Recently shown to be a novel regulator of dendritic growth and arborization and spine formation in the striatum.
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Neuregulin-4, Neuregulin 4, HRG4, Pro-neuregulin-4, membrane-bound isoform, Pro-NRG4, NRG-4.
<b>Purity</b>	>90%
<b>Description</b>	Growth factor which is part of the neuregulin family

#### Solubility & Handling

<b>Handling</b>	<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>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.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

#### Chemical Data

<b>UniProt ID</b>	Q8WWG1
<b>Source</b>	E. Coli.
<b>Appearance</b>	Clear solution (sterile filtered)
<b>Formulation</b>	Solution (0.25mg/ml) containing Tris-HCl(20mM, pH8.0), 30% glycerol, NaCl (150mM) and DTT (1mM)

#### References

##### Neuregulin-4 Is Required for the Growth and Elaboration of Striatal Medium Spiny Neuron Dendrites

Paramo B *et al* (2019) J Neuropathol Exp Neurol 0

**PubMedID** [31225596](#)

##### Neuregulin-4 is an angiogenic factor that is critically involved in the maintenance of adipose tissue vasculature

Nugroho DB *et al* (2018) Biochem Biophys Res Commun 503(1)

**PubMedID** [29902456](#)

##### Neuregulin-4 is a survival factor for colon epithelial cells both in culture and in vivo

