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## DATASHEET

Recombinant human Neuropilin-1 / NRP1 protein

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### Product overview

<b>Name</b>	Recombinant human Neuropilin-1 / NRP1 protein
<b>Cat No</b>	HB7292
<b>Biological description</b>	Neuropilin-1 takes part in cell survival, angiogenesis, invasion, migration, and axon guidance.
<b>Species of origin</b>	human
<b>Alternative names</b>	NRP1 Human, Neuropilin-1 isoform a, NRP1, BDCA4, CD304, NP1, NRP, VEGF165R, Vascular endothelial cell growth factor 165 receptor.
<b>Purity</b>	>90%
<b>Description</b>	Membrane-bound coreceptor

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### Biological Data

<b>Application notes</b>	Recombinant human Neuropilin-1 / NRP1 protein (produced in Sf9 Baculovirus cells) is a single, glycosylated polypeptide chain containing 843 amino acids (22-856a.a.) and has a molecular mass of 94.8kDa. The molecular size will appear at approximately 100-150kDa by SDS-PAGE. This protein is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.
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### 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.

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### Chemical Data

<b>UniProt ID</b>	O14789
<b>Source</b>	Sf9, Baculovirus cells.
<b>Appearance</b>	Colourless solution (sterile filtered)
<b>Formulation</b>	Solution (0.25mg/ml) containing PBS (pH7.4) and 20% glycerol.

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### References

#### Neuropilin 1: function and therapeutic potential in cancer

Chaudhary B *et al* (2014) Cancer Immunol Immunother 63(2)

**PubMedID**

[24263240](#)

### **Neuropilin-1 expression in cancer and development**

Jubb AM *et al* (2012) *J Pathol* 226(1)

**PubMedID**

[22025255](#)

### **Neuropilin-1 mediates vascular permeability independently of vascular endothelial growth factor receptor-2 activation**

Roth L *et al* (2016) *Sci Signal* 9(425)

**PubMedID**

[27117252](#)

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