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DATASHEET

Recombinant human Neuropilin-1 / NRP1 protein

Product overview

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

Biological Data

Application notes	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

Handling	<ul style="list-style-type: none">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	O14789
Source	Sf9, Baculovirus cells.
Appearance	Colourless solution (sterile filtered)
Formulation	Solution (0.25mg/ml) containing PBS (pH7.4) and 20% glycerol.

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)

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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](#)
