

## Neuropilin-1 Protein, Human (Biotinylated, HEK293, His-Avi, solution)

Cat. No.:	HY-P73309
Synonyms:	Neuropilin-1, His; CD304; NRP1; NRPNP1; VEGF165R; BDCA4
Species:	Human
Source:	HEK293
Accession:	O14786-2 (F22-K644, V179A)
Gene ID:	8829
Molecular Weight:	Approximately 73.1 kDa

### PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized VEGF165 at 2 µg/mL (100 µL/well) can bind Biotinylated Neuropilin-1 Protein, Human (644a.a, HEK293, His-Avi) and the EC <sub>50</sub> is 197.1 ng/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	The Neuropilin-1 protein assumes a significant role as it binds to VEGF-165, potentially inhibiting its binding to cells and inducing apoptosis by sequestering VEGF-165. This dual functionality suggests Neuropilin-1's involvement in the regulation of VEGF-mediated cellular processes. Additionally, Neuropilin-1 may interact with various members of the semaphorin family, indicating its versatility in binding to different ligands. Notably, its expression appears to exert an adverse effect on blood vessel number and integrity, suggesting a potential role in angiogenesis and vascular development. The diverse interactions and regulatory effects of Neuropilin-1 underscore its importance in orchestrating complex cellular processes and its potential implications in angiogenesis and apoptotic pathways.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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