

Product Data Sheet

Neuropilin-1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78779
Synonyms:	NRP1; Neuropilin-1; NRP; VEGF165R; CD304
Species:	Human
Source:	HEK293
Accession:	AAH07533 (F22-K644)
Gene ID:	8829
Molecular Weight:	116-130 kDa

PROPERTIES

AA Sequence	F R N D K C G D T I D P Y Q R I M I N F K F C G K I A P P P K R G P E C S Q N Y M S E I I L E F E S P H I G R Y C G Q K Y S V L Q S S V S E S A E R S R L N Y P Q G A I S K E T K K Q G N T N P T D V V Y G C K I T D Y P C I R L V T S R S G W G G K H R E N K V F G N N N Y D T P E L	K I E S P G Y L T S N P H F D L E D R D V V S S G P F L F I T T P S G V I K S P F D L E P D S N P P T P G R I R S S S G D F K C M E A L G M E N G W T P G E D S K Y Y V K T Y K I D V A V F P K P L I T S G M L G M V S G L A L P P A P H S Y I M R K F K I G Y S N R T F P A L S T R F	P G Y P H S Y H P S C K Y D Y V E V F D K F V S D Y E T H G G F P E K Y P N S L G G M F C R Y D R L I L S M V F Y T D S E S G E I H S D Q I Y R E W I Q V D L G V S S N G E D W I T R F V R I K P A T W I S D S Q I T S S N N E W L Q I D L G E N G S D W K M I M D I R I Y P E R A T H	E K C E W L I Q A P G E N E N G H F R G A G F S I R Y E I F E C T Y I V F A P K E I W D G F P D V G A I A K E G F S A N T A S S Q Y S T N W L L R F V T A V G T I K E G N K P V L F E T G I S M R F E V Q G D R N W M P E N E K I V R G I I I Q D S K R K A K S F E G G L G L R M E L L
	G C E V E A P T A G G G T T V L A T E K	P T T P N G N L V D P T V I D S T I Q S	E C D D D Q A N C H G I K	S G T G D D F Q L T
Biological Activity	2. Measured by its binding		. Immobilized Neuropilin-1 a	c with a linear range of 0.2-4 ng/mL. at 2 μg/ml (100 μl/well) can bind
Appearance	Lyophilized powder			
Formulation	Lyophilized a 0.22 µm filte	red solution of 20 mM PB, 1	50 mM NaCl, pH 7.4 orPBS, 6	% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by L	AL method.		
Reconsititution			ion less than 100 μg/mL in d HSA, 10% FBS or 5% Trehald	ldH ₂ O. For long term storage it is ose).
Storage & Stability	Stored at -20°C for 2 years.	. After reconstitution, it is st	able at 4°C for 1 week or -20°	°C for longer (with carrier protein). It is

	recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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.

REFERENCES

[1]. Glinka Y, et al. Neuropilin-1 exerts co-receptor function for TGF-beta-1 on the membrane of cancer cells and enhances responses to both latent and active TGF-beta. Carcinogenesis. 2011 Apr;32(4):613-21.

Caution: Product has not been fully validated for medical applications. For research use only.

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