Neuropilin-1 Protein, Human (644a.a, HEK293, C-His)

Cat. No.:	HY-P73311A
Synonyms:	Neuropilin-1, His; CD304; NRP1; NRPNP1; VEGF165R; BDCA4
Species:	Human
Source:	HEK293
Accession:	O14786-2 (M1-K644)
Gene ID:	8829
Molecular Weight:	Approximately 90 kDa

PROPERTIES

AA Sequence

MERGLPLLCA VLALVLAPAG AFRNDKCGDT IKIESPGYLT
SPGYPHSYHP SEKCEWLIQA PDPYQRIMIN FNPHFDLEDR
DCKYDYVEVF DGENENGHFR GKFCGKIAPP PVVSSGPFLF
IKFVSDYETH GAGFSIRYEI FKRGPECSQN YTTPSGVIKS
PGFPEKYPNS LECTYIVFVP KMSEIILEFE SFDLEPDSNP
PGGMFCRYDR LEIWDGFPDV GPHIGRYCGQ KTPGRIRSSS
GILSMVFYTD SAIAKEGFSA NYSVLQSSVS EDFKCMEALG
MESGEIHSDQ ITASSQYSTN WSAERSRLNY PENGWTPGED
SYREWIQVDL GLLRFVTAVG TQGAISKETK KKYYVKTYKI
DVSSNGEDWI TIKEGNKPVL FQGNTNPTDV VVAVFPKPLI
TRFVRIKPAT WETGISMRFE VYGCKITDYP CSGMLGMVSG
LISDSQITSS NQGDRNWMPE NIRLVTSRSG WALPPAPHSY
INEWLQIDLG EEKIVRGIII QGGKHRENKV FMRKFKIGYS
NNGSDWKMIM DDSKRKAKSF EGNNNYDTPE LRTFPALSTR
FIRIYPERAT HGGLGLRMEL LGCEVEAPTA GPTTPNGNLV
DECDDDQANC HSGTGDDFQL TGGTTVLATE KPTVIDSTIQ
SGIK

Biological Activity	Measured in a cell proliferation assay using HUVEC cells. The ED_{50} for this effect is 154.3 ng/mL,corresponding to a specific activity is 6.48×10^3 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable 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.

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