

Human NRP1 Protein; His Tag

Product Information

Product Name	Human NRP1 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88891RP-100 / 100 μg GM-88891RP-1000 / 1 mg

Protein Information

Alternative Names	Neuropilin-1, NRP, VEGF165R, CD304
Source	Human NRP1 Protein; His Tag (GM-88891RP) is expressed from human 293 cells (HEK-293). It contains AA Phe 22 - Lys 644 (Accession # AAH07533.1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	70.7 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Description	Neuropilin-1 (NRP1), also known as CD304, is a type I transmembrane glycoprotein encoded by the NRP1 gene on human chromosome 10p11.22. Its large extracellular portion is organized into two CUB (a1/a2), two coagulation factor V/VIII homology (b1/b2), and one MAM domain, followed by a short cytoplasmic tail. NRP1 functions as a pleiotropic co-receptor for class 3 semaphorins and for heparin-binding VEGF family ligands, including VEGF-A ₁₆₅ and PlGF-2, acting together with plexins and VEGF receptors to regulate axon guidance, cardiovascular development, and angiogenesis. Beyond vascular and neuronal biology, NRP1 modulates immune responses and has been implicated in tumor progression, making it an attractive therapeutic target.

Figures

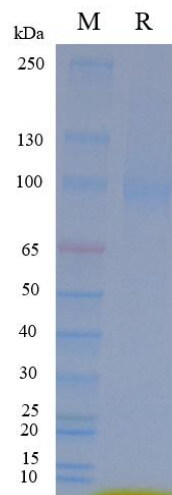


Figure 1 | On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

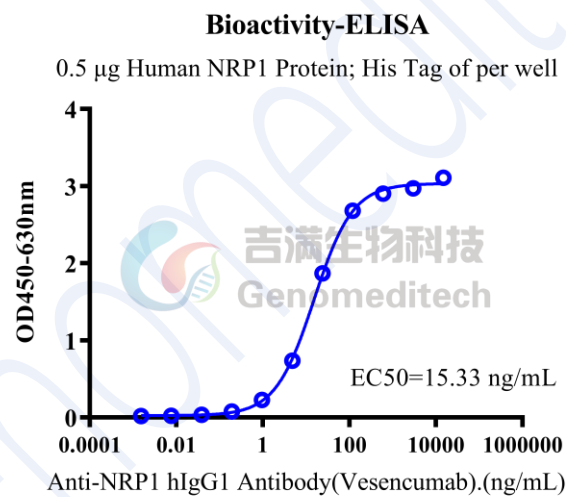


Figure 2 | Human NRP1 Protein; His Tag (Catalog # GM-88891RP) was immobilized at 5 μ g/ml (100 μ L/well). Increasing concentrations of Anti-NRP1 hIgG1 Antibody(Vesencumab) (Catalog # GM-28193AB) were added.