Human Neuropilin-1 Protein

Cat. No. NRP-HM101

Description

Source	Recombinant Human Neuropilin-1 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Phe22-Lys644.
Accession	NP_001019799.1
Molecular Weight	The protein has a predicted MW of 70.97 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

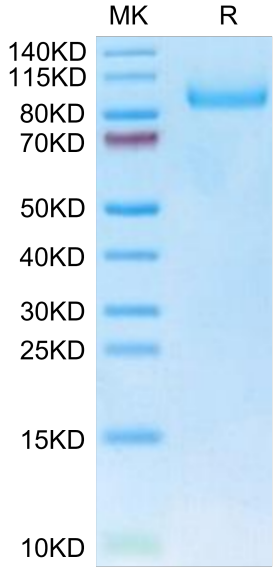
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Neuropilin 1 (NRP1) is a transmembrane glycoprotein that acts as a co-receptor for a number of extracellular ligands including class III/IV semaphorins, certain isoforms of vascular endothelial growth factor and transforming growth factor beta.

Assay Data

Bis-Tris PAGE



Human Neuropilin-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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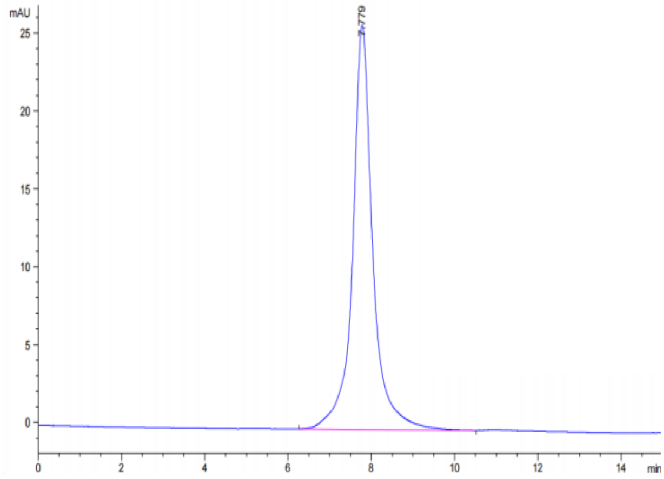
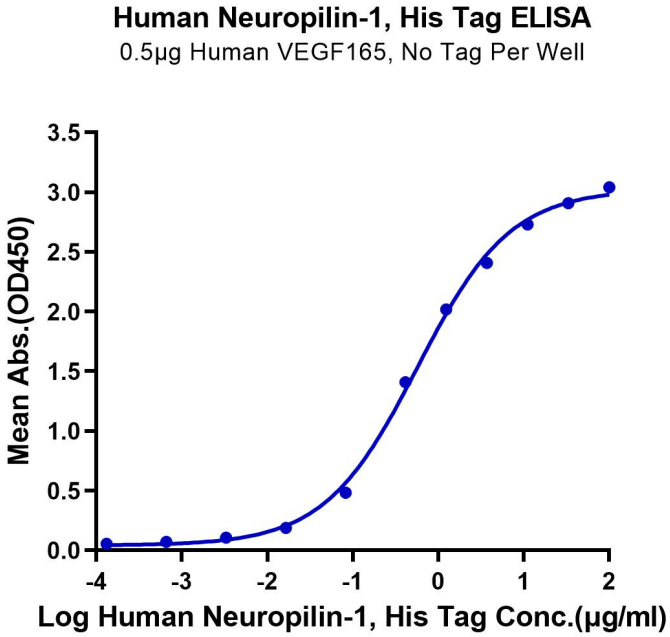
Assay Data



The purity of Human Neuropilin-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human VEGF165, No Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Human Neuropilin-1, His Tag with the EC50 of 0.57μg/ml determined by ELISA.