

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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

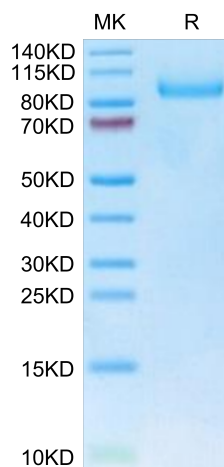
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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

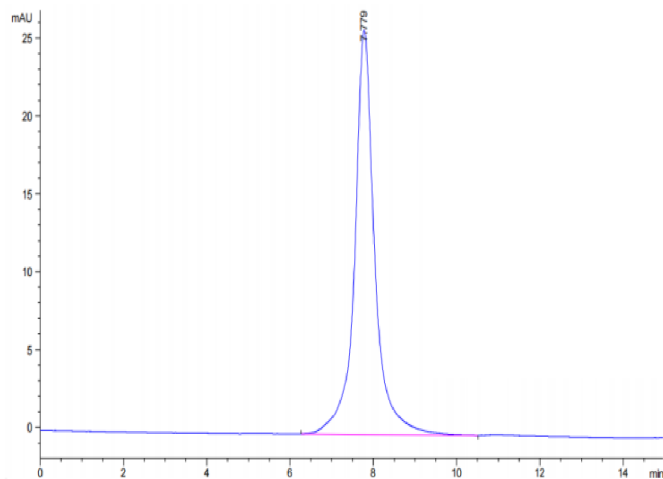
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

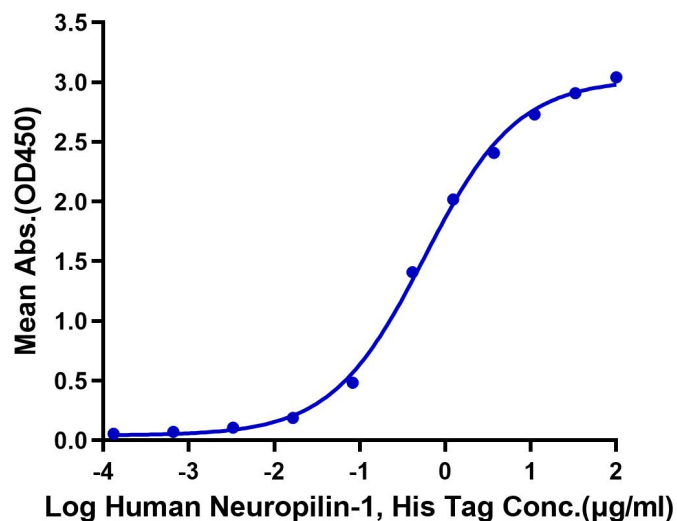


The purity of Human Neuropilin-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Neuropilin-1, His Tag ELISA

0.5µg Human VEGF165, No Tag Per Well



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.