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Datasheet for ABIN7275369

Neuropilin 1 Protein (NRP1) (AA 22-644) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	Neuropilin 1 (NRP1)
Protein Characteristics:	AA 22-644
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuropilin 1 protein is labelled with His tag.

Product Details

Purpose:	Human Neuropilin-1 Protein
Sequence:	Phe22-Lys644
Characteristics:	Recombinant Human Neuropilin-1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe22-Lys644.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	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 2.0µg/ml determined by ELISA. See testing image for detail.

Target Details

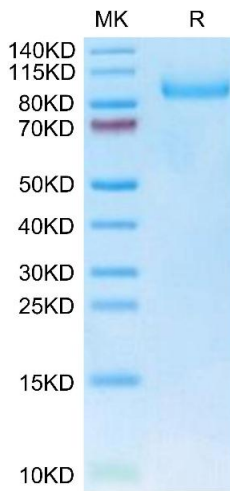
Target:	Neuropilin 1 (NRP1)
Alternative Name:	Neuropilin-1 (NRP1 Products)
Background:	Neuropilin 1 (NRP1) is a transmembrane glycoprotein that acts as a co-receptor for a number of extracellular ligands including class III/IV semaphorins, certain isoforms of vascular endothelial growth factor and transforming growth factor beta.
Molecular Weight:	70.97 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_001019799
Pathways:	Regulation of Cell Size , Signaling Events mediated by VEGFR1 and VEGFR2 , Smooth Muscle Cell Migration , Platelet-derived growth Factor Receptor Signaling , VEGFR1 Specific Signals

Application Details

Restrictions:	For Research Use only
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Handling

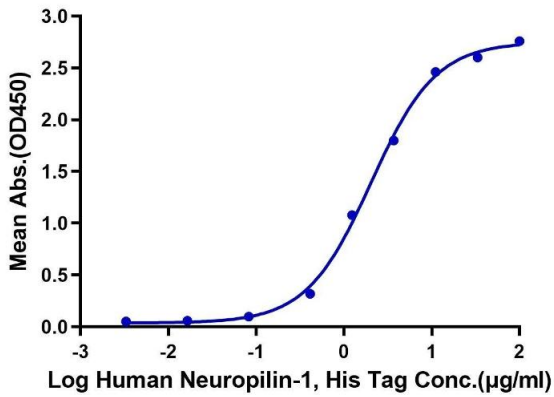
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months 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.
Expiry Date:	12 months



SDS-PAGE

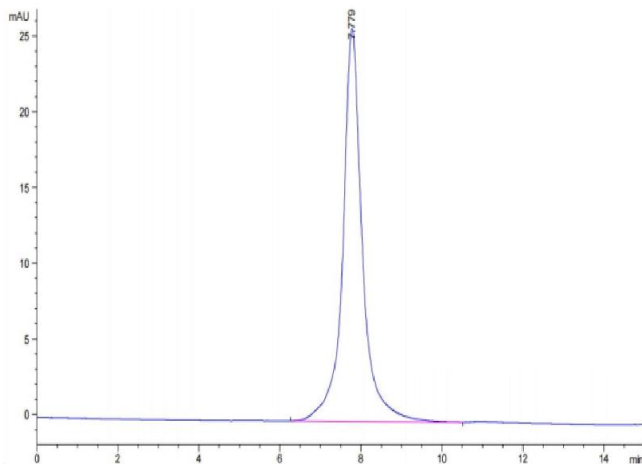
Image 1. Human Neuropilin-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Human Neuropilin-1, His Tag ELISA
0.5µg Human VEGF165, No Tag Per Well



ELISA

Image 2. Immobilized Human VEGF165, No Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human Neuropilin-1, His Tag with the EC50 of 2.0 µg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human Neuropilin-1 is greater than 95 % as determined by SEC-HPLC.