

# Human ARTN Protein

Cat. No. ARN-HM201



## Description

<b>Source</b>	Recombinant Human ARTN Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Ala108-Gly220.
<b>Accession</b>	Q5T4W7-1
<b>Molecular Weight</b>	The protein has a predicted MW of 39.3 kDa. Due to glycosylation, the protein migrates to 48-52 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

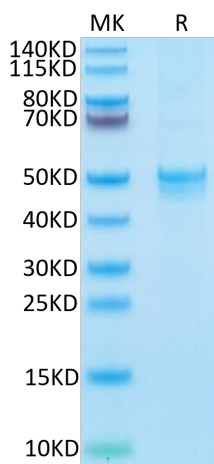
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 4mM HCl (pH 2.8). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in 4mM HCl (pH2.8).
<b>Storage</b>	-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.

## Background

Artemin (ARTN) is a member of glial cell line-derived neurotrophic factor (GDNF) family of ligands, and its signaling is mediated via a multi-component receptor complex including the glycosylphosphatidylinositol-anchored GDNF family receptors a (GFRa1, GFRa3) and RET receptor tyrosine kinase. The major mechanism of ARTN action is via binding to a non-signaling co-receptor. The major function of ARTN is to drive the molecule to induce migration and axonal projection from sympathetic neurons.

## Assay Data

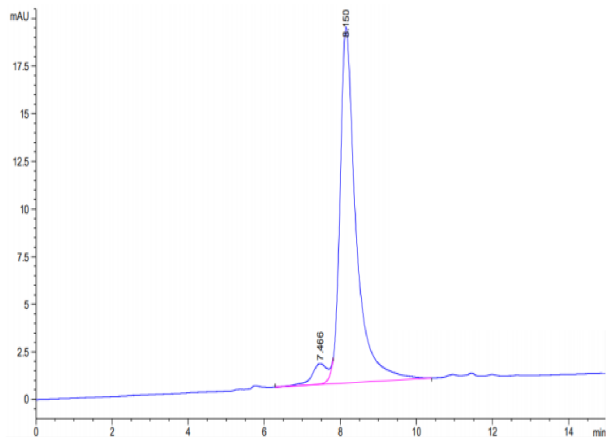
### Tris-Bis PAGE



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

### SEC-HPLC

Assay Data



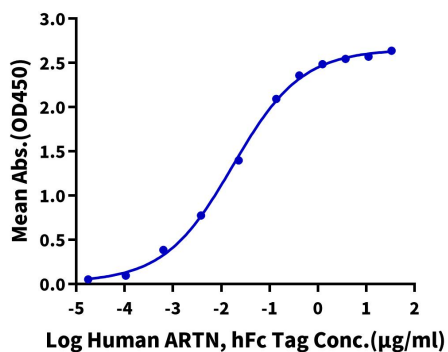
The purity of Human ARTN is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human ARTN, hFc Tag ELISA**

0.5µg Human GFRA3, His Tag Per Well



Immobilized Human GFRA3, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human ARTN, hFc Tag with the EC50 of 17.2ng/ml determined by ELISA.