

# Rat ANGPT2/Angiopoietin-2 Protein

Cat. No. APN-RM102

## Description

<b>Source</b>	Recombinant Rat ANGPT2/Angiopoietin-2 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Lys275-Phe496.
<b>Accession</b>	O35462
<b>Molecular Weight</b>	The protein has a predicted MW of 26.28 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

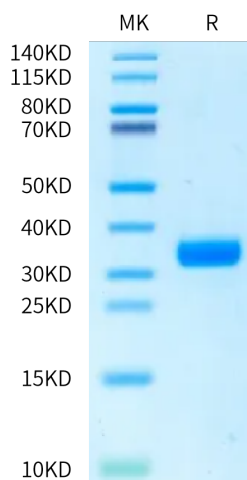
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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

Angiopoietin-2 (Ang-2; also ANGPT2) is a secreted glycoprotein that plays a complex role in angiogenesis and inflammation. Mature Ang-2 is 478 amino acids in length. Ang2 is widely expressed during development, but it is restricted postnatally to highly angiogenic tissues such as the placenta, ovaries, and uterus. It is particularly abundant in vascular endothelial cells (EC) where it is stored in intracellular Weibel Palade bodies..

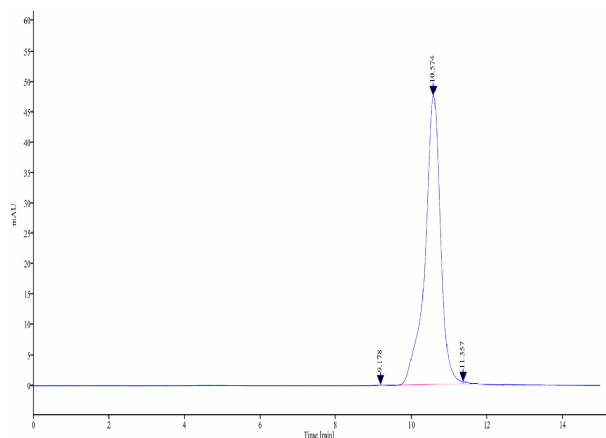
## Assay Data

### Bis-Tris PAGE



Rat ANGPT2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



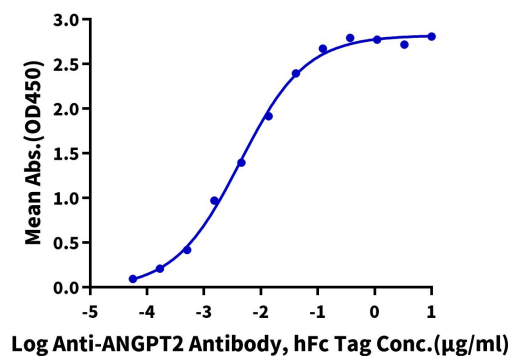
The purity of Rat ANGPT2 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Rat ANGPT2, His Tag ELISA**

0.1µg Rat ANGPT2, His Tag Per Well



Immobilized Rat ANGPT2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-ANGPT2 Antibody, hFc Tag with the EC50 of 4.3ng/ml determined by ELISA.