

Human ANGPT2/Angiopoietin-2 Protein

Cat. No. APN-HM401



Description

Source	Recombinant Human ANGPT2/Angiopoietin-2 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.
	It contains Lys275-Phe496.
Accession	O15123-1
Molecular Weight	The protein has a predicted MW of 28.4 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

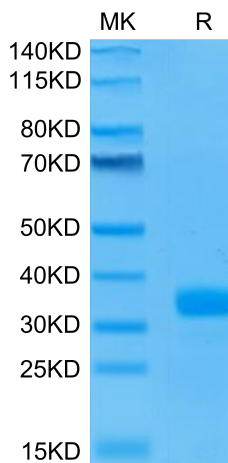
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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..

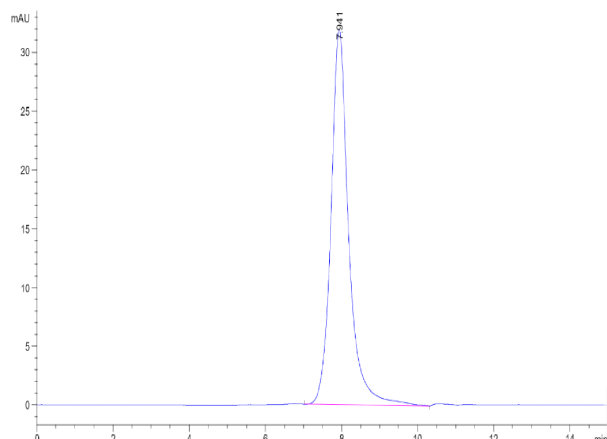
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human ANGPT2 is greater than 95% as determined by SEC-HPLC.

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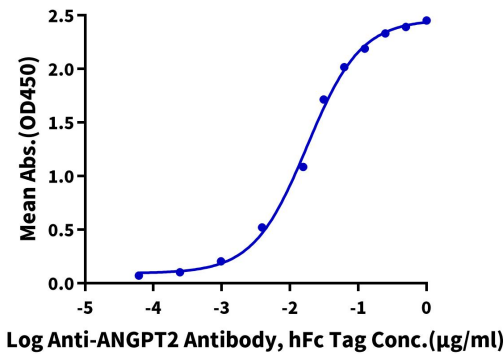


Assay Data

ELISA Data

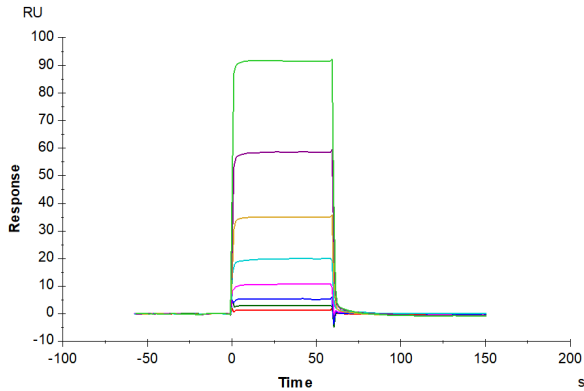
Human ANGPT2, His Tag ELISA

0.2µg Human ANGPT2, His Tag Per Well



Immobilized Human ANGPT2, His Tag at 2µg/ml (100µl/well). Dose response curve for Anti-ANGPT2 Antibody, hFc Tag with the EC50 of 17.8ng/ml determined by ELISA (QC Test).

SPR Data



Human TIE2, His Tag immobilized on CM5 Chip can bind Human ANGPT2, His Tag with an affinity constant of 2.38 µM as determined in SPR assay (Biacore T200).