

## ANGPT2/Angiopoietin-2 Protein, Human (His & Avi), Biotinylated

### General Information

Synonyms:	ANG-2;ANGPT2;Angiopoietin-2;Tie2-ligand;AGPT2;ANG2;angiopoietin-2a;angiopoitin 2; angiopoietin 2;angiopoietin-2B
Protein Construction:	Recombinant Biotinylated 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]
Species:	Human
Expression Host:	HEK293
Accession:	O15123-1
Molecular Weight:	28.4 kDa (predicted). Due to glycosylation, the protein migrates to 32-37 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	<ol style="list-style-type: none"><li>1. Immobilized Anti-ANGPT2 Antibody, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ANGPT2, His Tag with the EC50 of 0.12µg/ml determined by ELISA.</li><li>2. Human TIE2, His Tag immobilized on CM5 Chip can bind Biotinylated Human ANGPT2, His Tag with an affinity constant of 2.93 µM as determined in SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Stability & 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. <i>Actual storage temperature shall be subject to the COA.</i>
Shipping:	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

### Protein Background

Angiopoietin-2 (Ang-2; also ANGPT2) is a secreted glycoprotein that plays a complex role in angiogenesis and

## A DRUG SCREENING EXPERT

---

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.

### Reference

Wu X, et al. Angiopoietin-2 as a Biomarker and Target for Immune Checkpoint Therapy[J]. Cancer Immunology Research, 2017, 5(1):17-28.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481