

Biotinylated Recombinant Human Angiopoietin-2/ANG-2/ANGPT2 (275-496) Protein

Catalog No.: RP02274B Recombinant

Sequence Information

SpeciesGene IDSwiss ProtHuman285015123

Tags N-His&Avi

Synonyms

AGPT2; ANG2; ANGPT2; ANG2

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by Tris-

Bis PAGE.

Calculated MW Observed MW

28.4 kDa 32-37 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

Biotinylated Recombinant Human Angiopoietin-2/ANG-2/ANGPT2(275-496) Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Lys275-Phe496) of Human Angiopoietin-2/ANG-2/ANGPT2 fused with a His and Avi tag at the N-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

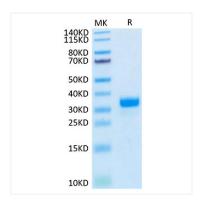
After reconstitution, the protein solution is stable at -20 $^{\circ}\text{C}$ for 3 months, at 2-8 $^{\circ}\text{C}$ for up to 1 week.

Avoid repeated freeze/thaw cycles.

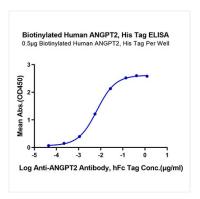
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Biotinylated Recombinant Human Angiopoietin-2/ANG-2/ANGPT2 (275-496) Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Biotinylated Human ANGPT2, His Tag at $5\mu g/ml$ ($100\mu l/Well$) on the Streptavidin Procated plate. Dose response curve for Anti-ANGPT2 Antibody, hFc Tag with the EC₅₀ of 6.7ng/ml determined by ELISA.