

AG-40A-0014

29-Oct-2010

Angiopoietin-1 (human) (rec.)

[Ang-1; Ang1; Angpt1]

AG-40A-0014-C010

10 µg

AG-40A-0014-C050

50 µg

Source/Host

CHO cells

MW

~57kDa (SDS-PAGE)

Sequence

Human angiopoietin-1 (aa 20-498) is fused at the N-terminus to a FLAG[®]-tag.

Handling / Storage

Shipping

BLUE ICE

Short Term Storage

+4°C

Long Term Storage

-20°C

After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

Use / Stability

Working aliquots are stable for up to 3 months when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Specificity

Binds to human Tie-2.

Biological Activity

Induces phosphorylation of Tie-2 in primary cultured human vascular endothelial cells (HU-VECs). The protein forms mainly tetrameric structures.

Purity

≥90% (SDS-PAGE)

Formulation

Liquid. 0.2µm-filtered solution in PBS containing 0.02% CHAPS.

Concentration

~0.2mg/ml

Endotoxin Content

<0.1EU/µg purified protein (LAL test; Lonza).

Other Product Data

UniProt link Q15389: [Angiopoietin-1 \(human\)](#)

FLAG is a registered trademark of Sigma-Aldrich Co.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

Adipogen AG
Schützenstrasse 12
4410 Liestal
Switzerland
TEL +41-61-926-60-40
FAX +41-61-926-60-49
info@adipogen.com

Adipogen Corp.
11588 Sorrento Valley Road, Suite 16
San Diego CA 92121-1336
USA
TEL (858) 457-8383
FAX (858) 457-8484
info-us@adipogen.com

Adipogen, Inc.
Room 401, Venture Building B, Songdo TechnoPark,
7-50 Sondo-dong, Yeonsu-gu, Incheon, 406-840,
South Korea
TEL 032-858-1470
FAX 032-831-1470
info@adipogen.com

For Local Distributors please visit
www.adipogen.com

Product Description

Angiopoietin-1 (Ang-1) and angiopoietin-2 (Ang-2) are closely related secreted ligands which bind with similar affinity to Tie-2. Tie-2 and angiopoietins have been shown to play critical roles in embryogenic angiogenesis and in maintaining the integrity of the adult vasculature. Ang-1 activates Tie-2 signaling on endothelial cells to promote chemotaxis, cell survival, cell sprouting, vessel growth and stabilization. Ang-2 has been identified as a secreted protein ligand of Tie-2 and has alternatively been reported to be an antagonist for Ang-1 induced Tie-2 signaling as well as an agonist for Tie-2 signaling, depending on the cell context.

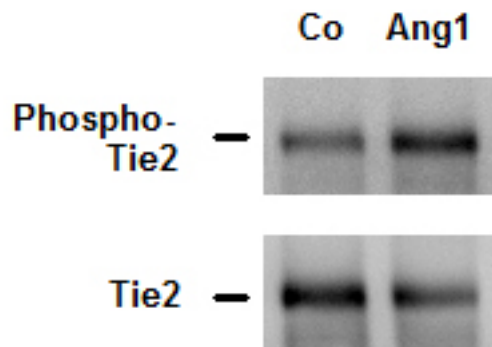


Figure 1: Induction of Tie-2 phosphorylation in primary cultured HUVECs .

Serum-starved human umbilical vein endothelial cells were treated with 200 ng/ml of BSA (Co) or 200 ng/ml of Angiopoietin-1 (human) (rec.) (Prod. No. AG-40A-0014) for 15 min. The phosphorylation of Tie-2 (Phospho-Tie-2) was measured after immunoprecipitation.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

Adipogen AG
Schützenstrasse 12
4410 Liestal
Switzerland
TEL +41-61-926-60-40
FAX +41-61-926-60-49
info@adipogen.com

Adipogen Corp.
11588 Sorrento Valley Road, Suite 16
San Diego CA 92121-1336
USA
TEL (858) 457-8383
FAX (858) 457-8484
info-us@adipogen.com

Adipogen, Inc.
Room 401, Venture Building B, Songdo TechnoPark,
7-50 Sondo-dong, Yeonsu-gu, Incheon, 406-840,
South Korea
TEL 032-858-1470
FAX 032-831-1470
info@adipogen.com

For Local Distributors please visit
www.adipogen.com

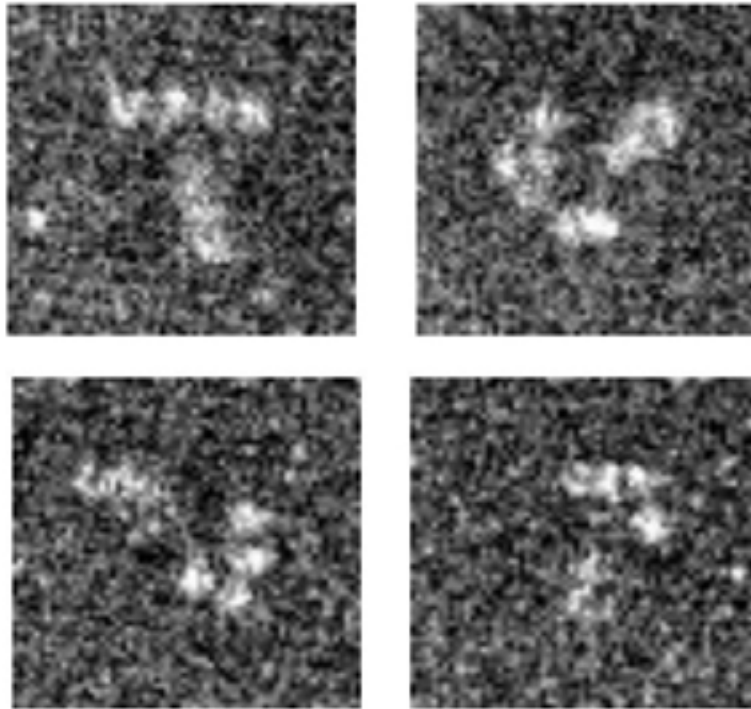


Figure 2: Glycerol spraying/low-angle rotary metal-shadowed specimens were imaged by transmission electron microscopy. Ang1 form mainly tetrameric structures, respectively.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

Adipogen AG
Schützenstrasse 12
4410 Liestal
Switzerland
TEL +41-61-926-60-40
FAX +41-61-926-60-49
info@adipogen.com

Adipogen Corp.
11588 Sorrento Valley Road, Suite 16
San Diego CA 92121-1336
USA
TEL (858) 457-8383
FAX (858) 457-8484
info-us@adipogen.com

Adipogen, Inc.
Room 401, Venture Building B, Songdo TechnoPark,
7-50 Sondo-dong, Yeonsu-gu, Incheon, 406-840,
South Korea
TEL 032-858-1470
FAX 032-831-1470
info@adipogen.com

For Local Distributors please visit
www.adipogen.com