

For Research Use Only

# Recombinant Human Angiopoietin-1 protein (rFc Tag)



Catalog Number: Eg3426

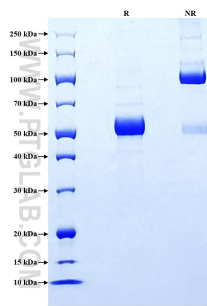
| Basic Information        | Species:<br>Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Purity:<br>>90 %, SDS-PAGE | Tag:<br>rFc Tag |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| Technical Specifications | <p><b>Purity:</b><br/>&gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b><br/>&lt;0.1 EU/µg protein, LAL method</p> <p><b>Source:</b><br/>HEK293-derived Human Angiopoietin-1 protein Arg277-Phe498 (Accession# Q15389-1) with a rabbit IgG Fc tag at the N-terminus.</p> <p><b>GeneID:</b><br/>284</p> <p><b>Accession:</b><br/>Q15389-1</p> <p><b>Predicted Molecular Mass:</b><br/>52.8 kDa</p> <p><b>SDS-PAGE:</b><br/>50-60 kDa, reducing (R) conditions</p> <p><b>Formulation:</b><br/>Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>                                                                               |                            |                 |
| Biological Activity      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                 |
| Storage and Shipping     | <p><b>Storage:</b><br/>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b><br/>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>                                                                                                                                                                                                                                               |                            |                 |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                 |
| Background               | <p>Angiopoietin 1 is a 70-kDa secreted glycoprotein generated from vascular mural cells, pericytes, and certain other cells. Angiopoietin 1 participates in vascular differentiation through angiogenesis, which is the process of the growth and remodelling of existing vessels. Angiopoietin 1 is also involved in the maintenance and turnover of blood vessels in mature animals. Angiopoietin1 binds to and activates the TEK/TIE2 receptor by inducing its dimerization and tyrosine phosphorylation, playing an important role in the regulation of angiogenesis. Overexpression of Angiopoietin1 has been proven to occur in malignant glioblastoma, neuroblastoma, non-small cell lung cancer and other tumors.</p> |                            |                 |
| References               | <ol style="list-style-type: none"><li>1. Brooke N Horton. et al. (2010) J Histochem Cytochem. 58(1):53-60.</li><li>2. C Suri. et al. (1996) Cell. 87(7):1171-80.</li><li>3. Linda J Metheny-Barlow. et al. (2003) Cell Res. 13(5):309-17.</li><li>4. Marie Jeansson. et al. (2011) J Clin Invest. 121(6):2278-89.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                 |
| Synonyms                 | ANGPT1, AGP1, AGPT, ANG 1, ANG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                 |

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com) W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



Purity of Recombinant Human Angiopoietin-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.