OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for DA3500

Angiopoietin-1 (21-496, His-tagged) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Angiopoietin-1 (21-496, His-tagged) human recombinant protein, 5 µg
Species:	Human
Tag:	His-tag
Predicted MW:	60-67 kDa
Purity:	>95% pure by SDS-PAGE and visualised by silver stain.
Buffer:	Presentation State: Purified State: Lyophilized purified protein. Buffer System: 10 mM Sodium Phophate + 100 mM NaCl, pH 7.5
Bioactivity:	Biological: The biological activity was determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells.
Endotoxin:	< 0.1 ng per µg of Ang-1
Preparation:	Lyophilized purified protein.
Protein Description:	Recombinant Human Angiopoietin-1, a 66 kDa protein consist ing of 476 amino acid residues (N21-F496), is fused to a C-terminal His-tag and produced in Hela cells.
Storage:	Store Ang-1 undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001137
Locus ID:	284
UniProt ID:	Q15389
Cytogenetics:	8q23.1
Synonyms:	AGP1; AGPT; ANG1; HAE5

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Summary: This gene encodes a secreted glycoprotein that belongs to the angiopoietin family. Members of this family play important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Mutations in this gene are associated with hereditary angioedema. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein