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Product datasheet for DA3501X

Angiopoietin-2 Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Angiopoietin-2 human recombinant protein, 20 µg
Species:	Human
Expression Host:	CHO
Predicted MW:	60-67 kDa
Purity:	>95% pure by SDS-PAGE and visualised by silver stain
Buffer:	Presentation State: Purified State: Lyophilized protein Buffer System: 10 mM Sodium Phosphate, pH 8.0 Stabilizer: None
Bioactivity:	Biological: Determined by its ability to stimulate tubulogenesis in HUVEC cells using a concentration of 0.2µg/ml.
Endotoxin:	< 0.1 ng per µg of Ang-2
Reconstitution Method:	Restore in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation:	Lyophilized protein
Protein Description:	Recombinant Human ANG-2 is a C-terminal Histidine tagged glycoprotein which migrates with an apparent molecular mass of 60 – 70 kDa by SDS-PAGE under reducing conditions. Sequencing analysis shows an N-terminal sequence starting with residue 68 (D) of the ANG-2 precursor protein.
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001112359
Locus ID:	285

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UniProt ID:	O15123
Cytogenetics:	8p23.1
Synonyms:	AGPT2; ANG2; LMPHM10
Summary:	This gene belongs to the angiopoietin family of growth factors. The protein encoded by this gene is an antagonist of angiopoietin 1, and both angiopoietin 1 and angiopoietin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiopoietin 2 is upregulated in multiple inflammatory diseases and is implicated in the direct control of inflammation-related signaling pathways. The encoded protein affects angiogenesis during embryogenesis and tumorigenesis, disrupts the vascular remodeling ability of angiopoietin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020]
Protein Families:	Druggable Genome, Secreted Protein