

Angiopoietin-2 Active Protein | ANGPT2 active protein

Angiopoietin-2 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257913

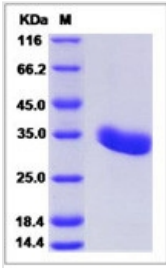
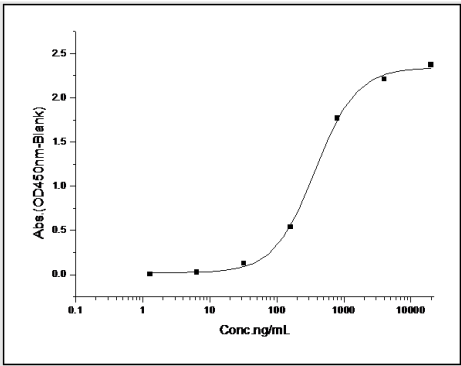
HOST
HEK293 Cells

PRODUCT SYNONYMS

Angiopoietin-2; Angiopoietin-2 Protein; Human; Recombinant (His Tag); Human Angiopoietin-2/ANG2 Protein (His Tag); AGPT2 Protein; ANG2 Protein; angiopoietin 2; ANGPT2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Lys275-Phe 496
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	His
Tag	N-His
Protein Construction	A DNA sequence encoding the human ANGPT2 (NP_001138.1)(Lys275-Phe496) was expressed with a polyhistidine tag at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized human ANGPT2 at 10ug/ml (100ul/well) can bind human Tie2-Fch. The EC50 of human Tie2-Fch is 0.1-0.3ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human ANGPT2 at 10 ug/ml (100 ul /well) can bind human Tie2-Fch, The EC50 of human Tie2-Fch is 0.1-0.3ug/ml.

ADDITIONAL INFORMATION

Related Product Information for ANGPT2 active protein	Background: Angiopoietin-2 (ANG 2, or ANGPT2), is a member of the ANG family, which plays an important role in angiogenesis during the development and growth of human cancers. Both ANGPT-1 and ANGPT-2 appear to bind to the tyrosine kinase receptor, Tie-2, found primarily on the luminal surface of endothelial cells. ANG-2's role in angiogenesis generally is considered as an antagonist for ANG1, inhibiting ANG1-promoted Tie2 signaling, which is critical for blood vessel maturation and stabilization. ANG-2 modulates angiogenesis in a cooperative manner with another important angiogenic factor, vascular endothelial growth factor A. Genetic studies have revealed that ANG-2 also is critical in lymphangiogenesis during development. ANG-2 has multiple physiologic effects that regulate vascular tone, hormone secretion, tissue growth and neural activity. Several reports indicate that ANG-2 can induce neovascularization in experimental systems due to the expression of different growth factors such as angiopoietin 2, vascular endothelial factor, and its receptor, fibroblast growth factor, platelet derived growth factor, transforming growth factor beta and epidermal growth factor. In addition, ANG-2 is strongly expressed in the vasculature of many tumors and it has been suggested that ANG-2 may act synergistically with other cytokines such as vascular endothelial growth factor to promote tumor-associated Angiogenesis and tumor progression.
Product Categories/Family for ANGPT2 active protein	Cancer Drug Targets
References	Thomas M, et al. (2009) The role of the Angiopoietins in vascular morphogenesis. Angiogenesis. 12(2): 125-37.Hu B, et al. (2009) Angiopoietin-2: development of inhibitors for cancer therapy. Curr Oncol Rep. 11(2): 111-6.Fiedler U, et al. (2006) Angiopoietins: a link between angiogenesis and inflammation. Trends Immunol. 27: 552-8.Escobar E, et al. (2004) Angiotensin II, cell proliferation and angiogenesis regulator: biologic and therapeutic implications in cancer. Curr Vasc Pharmacol. 2(4): 385-99.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557315
NCBI GeneID	285
NCBI Accession #	NP_001138.1
NCBI GenBank Nucleotide #	NM_001147.2
UniProt Accession #	O15123; Q9NRR7; Q9P2Y7; A0AV38; A8K205; B7ZLM7
Molecular Weight	56,848 Da
NCBI Official Full Name	angiopoietin-2 isoform a
NCBI Official Synonym Full Names	angiopoietin 2
NCBI Official Symbol	ANGPT2
NCBI Official Synonym Symbols	ANG2; AGPT2

NCBI Protein Information	angiopoietin-2
UniProt Protein Name	Angiopoietin-2
UniProt Gene Name	ANGPT2
UniProt Synonym Gene Names	ANG-2
UniProt Entry Name	ANGP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-angpt2-active-protein/angiopoietin-2/257913>