

Angiopoietin-2/ANGPT2 Recombinant Protein | ANGPT2 recombinant protein

Recombinant Human Angiopoietin-2/ANGPT2 Protein (mFc Tag)

CATALOG # AAA259284	HOST HEK293 Cells	REACTIVITY Human
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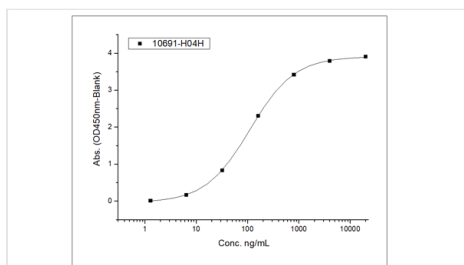
PRODUCT SYNONYMS

Angiopoietin-2/ANGPT2; Recombinant Human Angiopoietin-2/ANGPT2 Protein (mFc Tag); Human Angiopoietin-2/ANGPT2 Protein (mFc Tag); angiopoietin 2; AGPT2 Protein; Human; ANG2 Protein; LMPHM10 Protein; ANGPT2 recombinant protein

PRODUCT SPECIFICATIONS

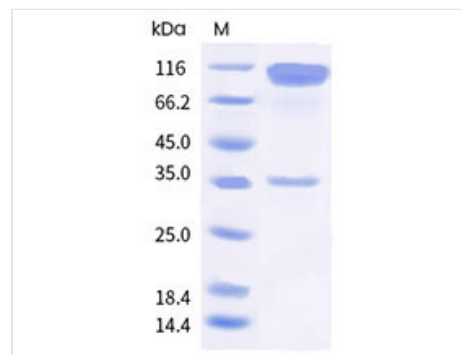
Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>= 90% as determined by SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Tyr19-Phe4 96
Tag	N-mouse IgG1-Fc
Predicted N Terminal	Asp
Endotoxin	< 1.0 EU perug of the protein as determined by the LAL method
Protein Construction	A DNA sequence encoding the Human ANGPT2 (NP_001138.1)(Tyr19-Phe496) was expressed with the Fc region of mouse IgG1 at the N-terminus.
Activity	Immobilized Recombinant Human Tie2/CD202b/TEK Protein (ECD, His Tag) at 2ug/mL (100uL/well) can bind Recombinant Human Angiopoietin-2/ANGPT2 Protein (mFc Tag), the EC50 is 50-180ng/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 unless customers require otherwise.

IMAGES



Application Data

Immobilized Recombinant Human Tie2/CD202b/TEK Protein (ECD, His Tag) at 2ug/mL (100uL/well) can bind Recombinant Human Angiopoietin-2/ANGPT2 Protein (mFc Tag)(#AAA259284), the EC50 is 50-180ng/mL.



Application Data

ADDITIONAL INFORMATION

Related Product Information for ANGPT2 recombinant protein	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 recombinant protein	Cancer Drug Targets
References	Thoma. M. e. al. (2009). Th. rol. o. th. Angiopoietin. i. vascula. morphogenesis. Angiogenesis. 12(2). 125-37.H. B. e. al. (2009). Angiopoietin-2. developmen. o. inhibitor. fo. cance. therapy. Cur. Onco. Rep. 11(2). 111-6.Fiedle. U. e. al. (2006). Angiopoietins. . lin. betwee. angiogenesi. an. inflammation. Trend. Immunol. 27. 552-8.Escoba. E. e. al. (2004). Angiotensi. II. cel. proliferatio. an. angiogenesi. regulator. biologi. an. therapeuti. implication. i. cancer. Cur. Vas. 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.