

Recombinant Dog Angiopoietin-2 (ANGPT2) Active Protein | ANGPT2 active protein

Recombinant Dog Angiopoietin-2 (ANGPT2)(Active)

CATALOG # AAA279193	HOST Mammalian cell
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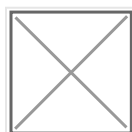
PRODUCT SYNONYMS

Recombinant Dog Angiopoietin-2 (ANGPT2); Recombinant Dog Angiopoietin-2 (ANGPT2)(Active); ANG-2; ANGPT2 active protein

PRODUCT SPECIFICATIONS

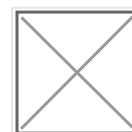
Host	Mammalian cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Sequence Positions	19-495aa; Full Length of Mature Protein
Sequence	YNNFRRSMDS IGRQYQVQH GSCSYTFLLP ETDNCRSPGS YVPNAVQRDA PLDYDDSVQR LQVLENIMEN NTQWLIKLEN YIQDNMKKEM VEMQQNAVQN QTAVMIEIGT NLLNQTAEQT RKLTDVEAQV LNQTTRLELQ LLEHSLSTNK LEQILDQTS EINKLQDKNS FLEKKVLDME DKHIVQLRSI KEEKDQLQVL VSKQNSIIEE LEKQLVTATV NNSVLQKQQH DLMETVHSLT TMISPSKSPK DTFVAKEEQI IYRDCAEVFK SGLTTNGIYT LTFPNSTEEI KAYCDMETSG GGWTVIQRRE DGSVDFQRTW KEYKVGFGNP SGHEHWLGNEF VFQVTNQPPY VLKIHLKDWE GNEAYSLYEH FYLSGEELNY RIHLKGLTGT AGKISSISQP GNDFSTKADAD NDKCICKCSQ MLTGGWWFDA CGPSNLNGMY YPQRQNTNKF NGIKWYYWKG SGYSLKGTMM MIRPADFS
Species	Canis lupus familiaris (Dog)(Canis familiaris)
Tag	C-terminal 6xHis-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cardiovascular
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Dog ANGPT2 at 2 ug/mL can bind anti-ANGPT2 recombinant antibody, the EC50 is 2.836-4.992 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



Bioactivity

Measured by its binding ability in a functional ELISA. Immobilized Dog ANGPT2 at 2 ?g/ml can bind anti-ANGPT2 recombinant antibody, the EC50 is 2.836-4.992 ng/mL



SDS-PAGE

Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for ANGPT2 active protein	Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating angiogenic signals mediated by ANGPT1. Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1. In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal.
Product Categories/Family for ANGPT2 active protein	Active Protein & In Stock Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	114326363
NCBI GeneID	607616
NCBI Accession #	NP_001041591.1
NCBI GenBank Nucleotide #	NM_001048126.1
UniProt Accession #	A0A8J8
Molecular Weight	57,012 Da
NCBI Official Full Name	angiopoietin-2
NCBI Official Symbol	ANGPT2
NCBI Official Synonym Symbols	ANG-2
NCBI Protein Information	angiopoietin-2
UniProt Protein Name	Angiopoietin-2
UniProt Gene Name	ANGPT2
UniProt Synonym Gene Names	ANG-2
UniProt Entry Name	ANGP2_CANLF

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://stage.aaabiotech.com/mammalian-cell-active-protein/recombinant-dog-angiopoietin-2-angpt2/279193>