

Active Recombinant Cynomolgus ANGPT2 Protein, His-tagged

Cat. No. ANGPT2-1173C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the cynomolgus / rhesus ANGPT2 (XP_005562586.1/XP_001097949.1) (Met1-Phe495) was expressed with a polyhistidine tag at the C-terminus. Cynomolgus and Rhesus ANGPT2 sequences are identical. The recombinant cynomolgus / rhesus ANGPT2 consists of 488 amino acids
Species	Cynomolgus
Source	HEK293
ProteinLength	1-495 a.a.
Description	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

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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.

Predicted N Terminal	Tyr 19
Bio-activity	Testing in progress
Molecular Mass	56.2 kDa
Endotoxin	< 1 EU/μg protein as determined by the LAL method.
Purity	> 90% as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20 centigrade to -80 centigrade Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Shipping	At ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are

shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name ANGPT2 angiopoietin 2 [*Macaca fascicularis* (crab-eating macaque)]

Official Symbol ANGPT2

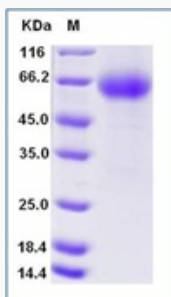
Synonyms ANGPT2; angiopoietin 2; angiopoietin-2

Gene ID 101925495

mRNA Refseq XM_005562529

Protein Refseq XP_005562586

SDS-PAGE



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