

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

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shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	ANGPT2 angiotensinogen 2 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	ANGPT2
Synonyms	ANGPT2; angiotensinogen 2; angiotensinogen-2
Gene ID	101925495
mRNA Refseq	XM_005562529
Protein Refseq	XP_005562586

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