

## ANGPT2

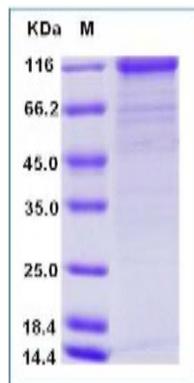
### Recombinant Human Angiopoietin-2 / ANG-2 (Fc Tag)

<b>Catalog No.</b>	CRH541A-Fc2 CRH541B-Fc2	<b>Quantity:</b>	20 µg 50 µg
<b>Alternate Names:</b>	Angiopoietin-2, ANG-2		
<b>Description:</b>	<p>Angiopoietin-2 (ANG-2) is a member of the ANG family, which plays an important role in angiogenesis during the development and growth of human cancers. Both ANG-1 and ANG-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 ANG-1, 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 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.</p>		
<b>UniProt ID:</b>	O15123		
<b>Accession Number:</b>	NP_001138.1		
<b>Protein Construction:</b>	A DNA sequence encoding the human ANGPT2 (Met1-Gln248 and Lys275-Phe496 linked by a polypeptide linker) was expressed with the Fc region of mouse IgG2a at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The recombinant human ANG-2 consists of 708 amino acids and predicts a molecular mass of 80.3 kDa.		
<b>Purity:</b>	> 85 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg protein as determined by the LAL method.		
<b>Biological Activity:</b>	Testing in progress		
<b>Predicted N-terminal:</b>	Tyr 19		



- Reconstitution:** **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.
- Storage & Stability:** Stable for up to 1 year from date of receipt at -20°C to -80°C. After reconstitution, store working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

SDS-PAGE



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