

Product datasheet for **TP726609**

Angiopoietin 2 (ANGPT2) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human ANG2 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Lys275-Phe496
Tag:	C-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20 mM HEPES, 150 mM NaCl, 0.1% CHAPS, pH 7.5.
Note:	Recombinant Human Angiopoietin-2 is produced by our Mammalian expression system and the target gene encoding Lys275-Phe496 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	285
UniProt ID:	Q15123
Synonyms:	AGPT2; ANG2; ANG-2; angiopoietin 2; Angiopoietin-2; angiopoietin-2a; angiopoietin-2B; angiopoitin 2; ANGPT2; Tie2-ligand
Summary:	Angiopoietin-2 (Ang-2; also ANGPT2) is a secreted glycoprotein that plays a complex role in angiogenesis and inflammation. Both Ang-2 and the related Angiopoietin-1 (Ang-1) are ligands for the receptor tyrosine kinase Tie-2. While Ang-1 is a potent Tie 2 agonist, Ang-2 may act as either a Tie-2 antagonist or agonist, depending upon its state of multimerization. The higher the order of oligomer, the more effective Ang-2 becomes as a Tie-2 agonist. The short isoform appears to block the binding of either Ang-1 or full-length Ang-2 to Tie-2. Ang-2 functions as a pro-angiogenic factor, although it can also induce EC death and vessel regression. Upon its release from quiescent EC, it regulates vascular remodeling by promoting EC survival, proliferation, and migration and destabilizing the interaction between EC and perivascular cells. 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.


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Protein Families: Druggable Genome, Secreted Protein