

## Product datasheet for **TP726663**

### Rhesus Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Rhesus Macaque ANG2 (C-Fc)
Species:	Rhesus
Expression cDNA Clone or AA Sequence:	Tyr19-Phe495
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS,pH7.4.
Note:	Recombinant Rhesus Macaque Angiotensin-2 is produced by our Mammalian expression system and the target gene encoding Tyr19-Phe495 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Summary:	Angiotensin-2 (Ang-2; also ANGPT2) is a secreted glycoprotein that plays a complex role in angiogenesis and inflammation. Both Ang-2 and the related Angiotensin-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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