

**Synonym**

ANGPTL4,ANGPTL2,ARP4,FIAF,HFARP,NL2,PGAR,pp1158,Angiopoietin like 4

**Source**

Human Angiopoietin-like 4 (166-406), His Tag (AN4-H5243) is expressed from human 293 cells (HEK293). It contains AA Pro 166 - Ser 406 (Accession # [Q9BY76-1](#)).

Predicted N-terminus: His

**Molecular Characterization**

Poly-his ANGPTL4(Pro 166 - Ser 406)  
Q9BY76-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 27.9 kDa. The protein migrates as 31-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM MOPS, 100 mM NaCl, pH7.2. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

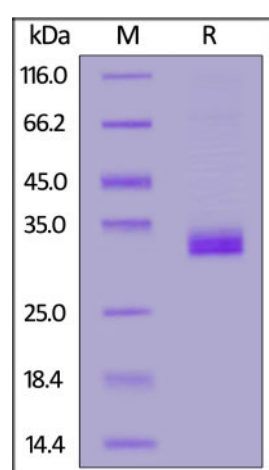
**Storage**

For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Angiopoietin-like 4 (166-406), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Background**

Angiopoietin-related protein 4 (ANGPTL4) is also known as Hepatic fibrinogen / angiopoietin - related protein (HFARP), ARP4, PGAR. ANGPTL4 contains one fibrinogen C-terminal domain. ANGPTL4 is a homooligomer, and the homooligomer undergoes proteolytic processing to release its carboxyl fibrinogen-like domain, which circulates as a monomer. The homooligomer unprocessed form is able to interact with the extracellular matrix. ANGPTL4 may act as a regulator of

angiogenesis and modulate tumorigenesis. ANGPTL4 inhibits proliferation, migration, and tubule formation of endothelial cells and reduces vascular leakage. ANGPTL4 may exert a protective function on endothelial cells through an endocrine action.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.