PRODUCT INFORMATION

Angiopoietin-4 Fibrinogen-like Domain (human, recombinant)

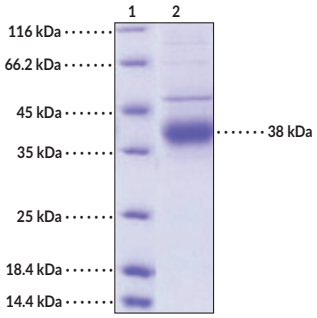
Item No. 42773

Overview and Properties

Synonyms:	ANG-4, ANGP4, ANGPT4
Source:	Recombinant human N-terminal His-tagged ANG-4 fibrinogen-like domain expressed in HEK293 cells
Amino Acids:	282-503
Uniprot No.:	Q9Y264
Molecular Weight:	27.6 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	≥80% estimated by SDS-PAGE
Supplied in:	Lyophilized from sterile PBS, pH 7.4
Endotoxin Testing:	<1.0 EU/µg, determined by the LAL endotoxin assay
Protein Concentration:	***batch specific*** mg/ml

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: Angiopoietin-4 Fibrinogen-like Domain

SDS-PAGE Analysis of Angiopoietin-4 Fibrinogen-like Domain (human, recombinant). This protein has a calculated molecular weight of 27.6 kDa. It has an apparent molecular weight of approximately 38 kDa by SDS-PAGE under reducing conditions due to glycosylation.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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Description

Angiopoietin-4 (ANG-4) is a member of the angiopoietin family of growth factors.[1,2] It is composed of an N-terminal domain, a coiled-coil domain, and a fibrinogen-like domain, forms disulfide-linked dimers, and is the human ortholog of mouse Ang-3. ANG-4 is predominantly expressed in the lung, with lower levels of expression in the heart, liver, kidney, and other tissues.[1] It acts as an agonist at its receptor, tunica interna endothelial cell kinase 2 (Tie2), and is involved in angiogenesis.[2] Intratumoral protein levels of ANG-4 are increased in patients with glioblastoma.[3] Cayman's Angiopoietin-4 Fibrinogen-like Domain (human, recombinant) protein consists of 242 amino acids and has a calculated molecular weight of 27.6 kDa. By SDS-PAGE, under reducing conditions, the apparent molecular mass of the protein is 38 kDa due to glycosylation.

References

1. Valenzuela, D.M., Griffiths, J.A., Rojas, J., *et al.* Angiopoietins 3 and 4: Diverging gene counterparts in mice and humans. *Proc. Natl. Acad. Sci. U.S.A.* **96(5),** 1904-1909 (1999).
2. Lee, H.J., Cho, C.-H., Hwang, S.-J., *et al.* Biological characterization of angiopoietin-3 and angiopoietin-4. *FASEB J.* **18(11),** 1200-1208 (2004).
3. Brunckhorst, M.K., Wang, H., Lu, R., *et al.* Angiopoietin-4 promotes glioblastoma progression by enhancing tumor cell viability and angiogenesis. *Cancer Res.* **70(18),** 7283-7293 (2010).

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