

Product datasheet

Recombinant human Angiopoietin 2/ANG2 protein ab123226

Description

Product name	Recombinant human Angiopoietin 2/ANG2 protein
Biological activity	Determined by its ability to stimulate tubulogenesis in HUVEC cells using a concentration of 0.2µg/ml.
Purity	> 95 % SDS-PAGE. Purity is greater than 95% by SDS-PAGE gel and HPLC analyses.
Endotoxin level	< 0.100 Eu/µg
Expression system	CHO cells
Accession	O15123
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	DAPLEYDDSV QRLQVLENIM ENNTQWLMKL ENYIQDNMKK EMVEIQQNAV QNQTAVMIEI GTNLLNQTAE QTRKLT DVEA QVLNQTTTRLE LQLLEHSLST NKLEKQILDQ TSEINKLQDK NSFLEKKVLA MEDKHIIQLQ SIKEEKDQLQ VLVSKQNSII EELEKKVTA TVNNSVLQKQ QHDLMETVNN LLTMMSTSNS AKDPTVAKEE QISFRDCAEV FKSGHTTNGI YT
Amino acids	68 to 299
Tags	His tag C-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab123226** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	HPLC
	Functional Studies

Form	Lyophilised
Additional notes	Determined by its ability to stimulate tubulogenesis in HUVEC cells using a concentration of 0.2µg/ml. This product was previously labelled as Angiopoietin 2

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	We recommend storing the lyophilised product at -20°C. If the product has been reconstituted, then we recommend storing with a carrier protein, such as 0.1% BSA in working aliquots at -20°C to -80°C for 3 months.

General Info

Function	Can induce tyrosine phosphorylation of TIE2. Binds to TIE2 receptor and counteracts blood vessel maturation/stability mediated by angiopoietin-1. Its function may be context-dependent. In the absence of angiogenic inducers, such as VEGF, ANG2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal.
Sequence similarities	Contains 1 fibrinogen C-terminal domain.
Domain	The Fibrinogen C-terminal domain mediates interaction with the TEK/TIE2 receptor.
Cellular localization	Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors