

Recombinant Human Angiopoietin 4

Cat. No. ANGPT4-1587H Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Source Mammalian Cells

ProteinLength 23-503 aa

Description

shares 45%, 47% and 54% aa sequence identity with human Ang-1, human Ang-2 and mouse Ang-3, respectively. Although the sequence homology is much higher between the human and mouse counterparts for Ang-1 (97%) and Ang-2 (85%), mouse Ang-3 is believed to be an ortholog of human Ang-4 based on chromosomal localization studies. Human Ang-4 is highly expressed in lung and in cultured human umbilical vein endothelial cells (HUVECs). In contrast, mouse Ang-3 is expressed multiple mouse tissues. Human Ang-4 is an agonist that can bind and activate Tie-2, a receptor tyrosine kinase with immunoglobulin and epidermal growth factor homology domains expressed primarily on endothelial cells and early hematopoietic cells. Mouse Ang-3 has been reported to be a Tie-2 antagonist. It is likely that mouse Ang-3, like Ang-2, may exert agonist or antagonist activities depending on the cell context.

State Of Matter Lyophilized.

Purity >85% by SDS PAGE and analyzed by silver stain.

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Endotoxin	<1.0 EU/g as determined by the LAL method.
Molecular Weight	The predicted molecular weight of Recombinant Human Ang-4 is Mr 57 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 60-100 kDa.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	ANGPT4 angiotensin 4 [Homo sapiens]
Synonyms	angiotensin 4; AGP4; ANG4; ANG-3; MGC138181; MGC138183; ANGPT4; angiotensin-3; dJ824F16.2 (angiotensin 4); ANG-4; ANG3; OTTHUMP00000029947
Gene ID	51378
mRNA Refseq	NM_015985
Protein Refseq	NP_057069
MIM	603705
UniProt ID	Q9Y264
Chromosome Location	20p13

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Pathway	Hemostasis; Signaling in Immune system
Function	transmembrane receptor protein tyrosine kinase activator activity; receptor binding

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