

Recombinant Human Angiopoietin 4

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

SPECIFICATION

Species	Human
Source	Mammalian Cells
ProteinLength	23-503 aa
Description	<p>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.</p>
State Of Matter	Lyophilized.
Purity	>85% by SDS PAGE and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.

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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 angiopoietin 4 \[Homo sapiens \]](#)

Synonyms [angiopoietin 4](#); [AGP4](#); [ANG4](#); [ANG-3](#); [MGC138181](#); [MGC138183](#); [ANGPT4](#); [angiopoietin-3](#); [dJ824F16.2 \(angiopoietin 4\)](#); [ANG-4](#); [ANG3](#); [OTTHUMP00000029947](#)

Gene ID [51378](#)

mRNA Refseq [NM_015985](#)

Protein Refseq [NP_057069](#)

MIM [603705](#)

UniProt ID [Q9Y264](#)

Chromosome Location 20p13

Pathway Hemostasis; Signaling in Immune system

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Function

transmembrane receptor protein tyrosine kinase activator activity; receptor binding

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