

Recombinant Human ANGPT1 protein, GST-tagged

Cat. No. ANGPT1-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ANGPT1(1 a.a. - 498 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-498 a.a.
Description	This gene encodes a secreted glycoprotein that belongs to the angiopoietin family. Members of this family play important roles in vascular development and angiogenesis. All angiopoietins bind with similar affinity to an endothelial cell-specific tyrosine-protein kinase receptor. The protein encoded by this gene is a secreted glycoprotein that activates the receptor by inducing its tyrosine phosphorylation. It plays a critical role in mediating reciprocal interactions between the endothelium and surrounding matrix and mesenchyme and inhibits endothelial permeability. The protein also contributes to blood vessel maturation and stability, and may be involved in early development of the heart. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	83.9 kDa
AA Sequence	MTVFLSFAFLAAILTHIGCSNQRRSPENSGRRYNRIQHGGCAYTFILPEHDGNCRES

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TTDQYNTNALQRDAPHVE PDFSSQKLQHLEHVMENYTQWLQKLENYIVENMKSEM
 AQIQQNAVQNHTATMLEIGTSLLSQTAEQTRKLTDTVET QVLNQTSRLEIQLLNSLST
 YKLEKQLLQQTNEILKIHEKNSLLEHKILEMEGKHKEELDTLKEEKENLQGLVTR QTYI
 IQELEKQLNRATTNNSVLQKQQLLEMDTVHNLVNLCTKEGVLLKGGKREEEKPFRD
 CADVYQAGFNKSGIY TIYINNMPPEPKKVFCNMDVNGGGWTVIQHREDGSLDFQRG
 WKEYKMGFGNPSGEYWLGNEFIFAITSQRQYMLRI ELMDWEGNRAYSQYDRFHIG
 NEKQNYRLYLKGHTGTAGKQSSLILHGADFSTKADNDNCMCKCALMLTGGWWFD
 ACGPSNLNGMFYTAGQNHGKLNIGIKWHYFKGPSYSLSRSTTMMIRPLDF

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

ANGPT1 angiotensin 1 [Homo sapiens]

Official Symbol

ANGPT1

Synonyms

ANGPT1; angiotensin 1; angiotensin-1; Ang1; KIAA0003; ANG-1; AGP1; AGPT;
 ANG1;

Gene ID

284

mRNA Refseq

NM_001146

Protein Refseq

NP_001137

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MIM	601667
UniProt ID	Q15389
Chromosome Location	8q23.1
Pathway	Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem; Rheumatoid arthritis, conserved biosystem; Tie2 Signaling, organism-specific biosystem;
Function	receptor tyrosine kinase binding;