

Recombinant Human Angiopoietin 1

Cat. No. ANGPT1-6881H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ANGPT1 protein was expressed in E. coli and purified by using conventional chromatography techniques. MW: 55.6 kDa.
Species	Human
Source	E.coli
ProteinLength	20-498aa
Description	Human ANGPT1 is a secreted ligand for Tie-2, a cell surface receptor tyrosine kinase expressed in endothelial and hemopoietic cells. This protein is glycosylated and has a fibrinogen-like domain at the carboxy terminus and coiled-coil regions in the amino terminus. ANGPT1 is an angiogenic factor that mediates blood vessel maturation and may be involved in endothelial development.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) 1M Urea, 5% Glycerol.
Molecular Mass	55.6 kDa (480aa)
AA Sequence	MSNQRRSPEN SGRRYNRIQH GQCAYTFILP EHDGNCREST TDQYNTNALQ RDAPHVEPDF SSQKLQHLEH VMENYTQWLQ KLENYIVENM KSEMAQIQQN AVQNHTATML EIGTSLLSQT AEQTRKLTDV ETQVLNQTSR LEIQLLENSL STYKLEKQLL QQTNEILKIH EKNSLLEHKI LEMEGKHKEE LDTLKEEKEN LQGLVTRQTY IIQELEKQLN RATTNNSVLQ KQQLLEMDTV HNLVNLCTKE GVLLKGGKRE EEKPFDCAD VYQAGFNKSG IYTIYINNMP EPKKVFCNMD

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VNGGGWTVIQ HREDGSLDFQ RGWKEYKMGF GNPSGEYWLG NEFIFAITSQ
 RQYMLRIELM DWEGNRAYSQ YDRFHIGNEK QNYRLYLKGH TGTAGKQSSL
 ILHGADFSTK DADNDNCMCK CALMLTGGWW FDACGPSNLN GMFYTAGQNH
 GKLNIGIKWHY FKGPSYSLRS TTMMIRPLDF

Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ANGPT1 angiotensinogen 1 [Homo sapiens]
Official Symbol	ANGPT1
Synonyms	ANGPT1; angiotensinogen 1; angiotensinogen-1; Ang1; KIAA0003; ANG-1; AGP1; AGPT; ANG1;
Gene ID	284
mRNA Refseq	NM_001146
Protein Refseq	NP_001137
MIM	601667

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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;

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