



Angiotensin-1, human recombinant (rHuANG-1)

Catalog No: 97404
Lot No: XXXXX
Source: *E. coli*
Synonyms: Angiotensin 1, KIAA0003, ANG-1, AGP1, AGPT

Background

ANGPT1 is an angiogenic factor which intervenes in blood vessel maturation and takes part in endothelial development. ANGPT1 is a secreted ligand for Tie-2, a cell surface receptor tyrosine kinase expressed in endothelial and hemopoietic cells. The glycosylated ANGPT1 protein has a coiled-coil region in the amino terminus and a fibrinogen-like domain at the carboxy terminus.

Description

ANGPT1 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 480 amino acids (20-498) and having a molecular mass of 55.6 kDa. ANGPT1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The ANGPT1 solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 1 M urea and 5% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

Amino Acid Sequence

MSNQRRSPEN SGRRYNRIQH GQCAYTFILP EHDGNCREST TDQYNTNALQ RDAPHVEPDF SSQKLQHLEH VMENYTQWLQ
KLENYIVENM KSEMAIQQN AVQNHTATML EIGTSLLSQT AEQTRKLTDV ETQVLNQTTSR LEIQLLLENSL STYKLEKQLL
QQTNEILKIH EKNSLLEHKI LEMEGKHKEE LDTLKEEKEN LQGLVTRQTY IIQELEKQLN RATTNNSVLQ KQQLLELMDTV
HNLVNLCTKE GVLLKGGKRE EEKPFRCAD VYQAGFNKSG IYTIYINMMP EPKKVFCNMD VNGGGWTVIQ HREDGSLDFQ
RGWKEYKMGF GNPSGEYWLG NEFIFAITSQ RQYMLRIELM DWEGNRAYSQ YDRFHIGNEK QNYRLYLKGH TGTAGQSSL
ILHGADFSTK DADNDNCMCK CALMLTGGWW FDACGPSNLN GMFYTAGQNH GKLNGIKWHY FKGPSYSLRS TTMMIRPLDF

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