

ANGPT1

Recombinant Human Angiopoietin-1, His-Tag

Catalog No.	CRA009A CRA009B	Quantity:	5 µg 20 µg
Alternate Names:	ANG-1, ANGPT1, AGP1		
Description:	<p>The Angiopoietins are a family of growth factors which bind to the endothelial receptor tyrosine kinase Tie2. Two of the Angs, Ang-1 and Ang-4, activate the Tie2 receptor, whereas Ang-2 and Ang-3 inhibit Ang-1-induced Tie2 phosphorylation. Ang-1 is a secreted growth factor which enhances endothelial cell survival and capillary morphogenesis, also it limits capillary permeability. Ang-2 is a natural inhibitor of Ang-1 because it binds the same receptor but fails to activate it. When ambient levels of VEGF are high Ang-2 destabilizes capillary integrity, facilitating sprouting, but when VEGF levels are low it causes vessel regression.</p> <p>Preliminary data suggests angiopoietins are implicated in deregulated vessel growth in Wilms' kidney tumors and in vascular remodeling after nephrotoxicity. Existing data suggests that during vascular development VEGF-A and Angiopoietins not only have different roles, but also complementary and coordinated roles.</p>		
UniProt ID:	Q15389		
Gene ID:	284		
Source:	HeLa Cells		
Molecular Weight:	60-70 kDa (485 aa)		
Formulation:	Lyophilized from 20 mM sodium phosphate, 200 mM CaCl ₂ , pH 7.5, 5% Trehalose		
Purity:	> 95% by SDS-PAGE and HPLC analyses		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	The biological activity was determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC).		
Amino Acid Sequence:	<p>MSNQRRSPENSGRRYNRIQHGQCAYTFILPEHDGNCRETTDQYNTNALQ RDAPHVEPDFSSQKLQHLEHMENYTQWLQKLENYIVENMKSEMAQIQQNA VQNHTATMLEIGTSLLSQTAEQTRKLTQVETQVLNQTSLRLEIQLLNSLS TYKLEKQLLQQTNEILKIHEKNSLLEHKILEMEGKHKEELDTLKEEKENL QGLVTRQTYIIQELEKQLNRATTNNSVLQKQQLLELMDTVHNLVNLCTKEG VLLKGGKREEEKPFRCADVYQAGFNKSGIYIYINMPEPKVFCNMDV NGGGWTVIQHREDGSLDFQRGWKEYKMGFGNPSGEYWLGNFIFAITSQR QYMLRIELMDWEGNRAYSQYDRFHIGNEKQNYRLYLKGHTGTAGKQSSLI LHGADFSTKADANDNCMCKCALMLTGGWWFDACGPSNLNGMFYTAGQNHG KLNIGIKWHYFKGPSYSLRSTTMMIRPLDFHHHHHH</p>		
Reconstitution:	Centrifuge vial prior to opening. Add sterile water to the vial to a concentration of 0.1 - 1.0 mg/mL. Do not vortex. After complete solubilization of the protein, it can be further diluted to other solutions containing a carrier protein, such as 0.1 % BSA.		
Storage & Stability:	The lyophilized protein is stable at -20°C to -80° for up to 1 year. Reconstituted working aliquots are stable for 1 week at 2-8°C and for 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com