



Angiopoietin-1 Recombinant Protein

CATALOG NUMBER: 90-007

Specifications

SPECIES:	Human
SOURCE SPECIES:	CHO cells
SEQUENCE:	Human angiopoietin-1 (aa 20-498) is fused at the N-terminus to a DDDDK-tag.
FUSION TAG:	DDDDK Tag
APPLICATIONS:	This recombinant proteins is for research use only.
BIOLOGICAL ACTIVITY:	Induces phosphorylation of Tie-2 in primary cultured human vascular endothelial cells (HUVECs). The protein forms mainly tetrameric structures.

Properties

PURITY:	>90% (SDS-PAGE)
PHYSICAL STATE:	Liquid
BUFFER:	0.2um-filtered solution in PBS containing 0.02% CHAPS.
CONCENTRATION:	~0.2mg/ml
STORAGE CONDITIONS:	Working aliquots are stable for up to 3 months when stored at -20°C.

Additional Info

ALTERNATE NAMES:	Ang-1, Ang1, Angpt1
ACCESSION NO.:	Q15389
PROTEIN GI NO.:	20532340

Background

Angiopoietin-1 (Ang-1) and angiopoietin-2 (Ang-2) are closely related secreted ligands which bind with similar affinity to Tie-2. Tie-2 and angiopoietins have been shown to play critical roles in embryogenic angiogenesis and in maintaining the integrity of the adult vasculature. Ang-1 activates Tie-2 signaling on endothelial cells to promote chemotaxis, cell survival, cell sprouting, vessel growth and stabilization. Ang-2 has been identified as a secreted protein ligand of Tie-2 and has alternatively been reported to be an antagonist for Ang-1 induced Tie-2 signaling as well as an agonist for Tie-2 signaling, depending on the cell context.

FOR RESEARCH USE ONLY

December 14, 2016