Recombinant Human CTGF

Cat No:HR2R1296

For research use only

Overview

Quantity	20 ?g
Gene Symbol	CTGF
Gene ID	1490
Accession	P29279
Alternative Name	CTGF, CCN family member 2, Hypertrophic chondrocyte-specific protein 24, HCS24, Insulin-like growth factor-binding protein 8, IBP-8, IGF-binding protein 8, IGFBP-8 Recombinant Human Connective Tissue Growth Factor (CTGF)
Species	Human
Source	E. coli
Description	Secreted by vascular endothelial cells, CTGF is a regulatory protein that has been shown to stimulate the growth of chondrocytes, promote angiogenesis and mediate cell adhesion of fibroblasts and endothelial cells. The binding of CTGF to heparin induces cell migration and adhesion. Mature Human CTGF is a 38.0 kDa secreted protein that is comprised of four distinct structural domains (a) IGFBP N-terminal domain (b) VWFC domain (c) TSP type-I domain and (d) C-terminal CTCK domain. Recombinant Human CTGF is an 11.3 kDa protein monomeric protein that maps to the CTCK domain.
Functions	Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED50 for this effect is 1.0-2.0 ?g/ml.
Formulation	Lyophilized from a 0.2 ?m filtered solution in PBS
Solubility	Reconstitute at 100 ?g/mL in sterile PBS
Appearance	Lyophilized Powder
Molecular Weight	11.3
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.