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Datasheet for 009-001-U72-0005

rHuman CTGF Protein

Overview

Description:	Human Connective Tissue Growth Factor Recombinant Protein - 009-001-U72-0005
Item No.:	009-001-U72-0005
Size:	5 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Connective Tissue Growth Factor (CTGF) is a member of cysteine rich regulatory proteins that are both mitogenic and chemotactic. Each protein has an Insulin-like Growth Factor (IGF)-binding domain, a thrombospondin type 1 domain and cysteine knot region. CTGF has multiple effects on development and differentiation. Recombinant human CTGF is a non-glycosylated protein, containing 98 amino acids, with a molecular weight of 11.2 kDa.
Synonyms:	CCN2, HCS24, IGFBP8
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CTGF
Purity/Specificity:	Connective Tissue Growth Factor purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P29279

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Connective Tissue Growth Factor Recombinant Protein has been tested by SDS-PAGE and biological assay and is suitable as a control for polyclonal or monoclonal anti-Connective Tissue Growth Factor in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: The activity is determined by the dose-dependent stimulation of HUVEC proliferation and is typically 1-2 µg/mL.

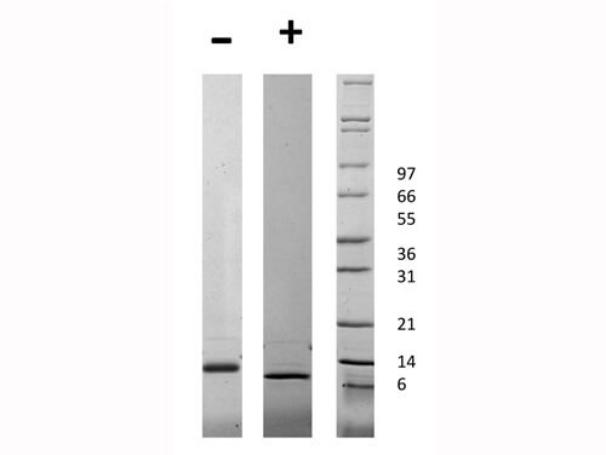
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	5µl (5-50µl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

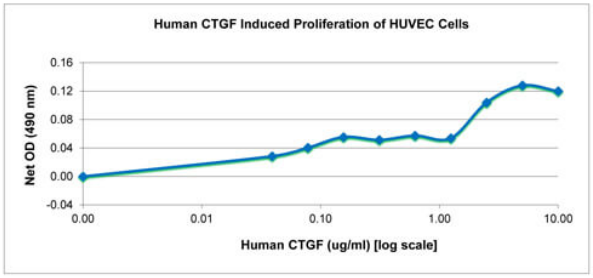
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE
SDS-PAGE of Human Connective Tissue Growth Factor Recombinant Protein. Lane 1: 1 µg Human CTGF in non-reducing conditions (-). Lane 2: 1 µg Human CTGF in reducing conditions (+). Lane 3: Molecular weight marker. Human CTGF has a predicted MW of 11.2 kDa.



SDS-PAGE
Bioactivity of Human Connective Tissue Growth Factor Recombinant Protein. Serial dilutions of Human CTGF, starting at 10 ug/mL, were added to HUVECs cultured without EGF. Cell proliferation was measured after 87 hours and the linear portion of the curve was us used to calculate the ED50. The ED50 of Human CTGF is 1.1-1.7 ug/mL. This value is comparable with the typical expected range of 1-2 ug/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.