gibco
by life technologies

Recombinant Human Connective Tissue Growth Factor (CTGF)

Publication Number MAN0003882 **Revision Date** 09 May 2011

Catalog Number:	PHG0286
Quantity:	20 µg
Lot Number:	See product label.
Molecular Weight:	11.2 kDa, 98 amino acid residues.
Purity:	≥95% by SDS PAGE and HPLC analyses.
Biological Activity:	ED_{50} = 1.0 to 2.0 µg/mL, determined by the dose dependent proliferation of HUVEC cells.
Formulation:	Lyophilized from 10 mM sodium acetate, pH 6.0. Filtered through a 0.2 micron filter prior to lyophilization.
Endotoxin:	<0.1 ng/µg
Production:	Produced in *E. coli* and purified by sequential chromatography.
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile, distilled water, to a concentration of 0.1–1.0 mg/mL. *Do not vortex*. This solution can be stored at 2°C to 8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein, such as 0.1% BSA and store in working aliquots at –20°C to –80°C.
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.
Storage:	The lyophilized protein is stable at room temperature for 1 month, but should be kept at –20°C for long term storage, preferably desiccated. Working aliquots stored with a carrier protein are stable for at least 10 months at –20°C to –80°C. Avoid repeated freeze/thaw cycles.
Expiration Date:	See product label.
References:	Bradham, D.M., et al. (1991) Connective tissue growth factor: a cysteine-rich mitogen secreted by human vascular endothelial cells is related to the SRC-induced immediate early gene product CEF-10. J. Cell Biol. 114(6):1285–1299. Igarashi, A., et al. (1992) Connective tissue growth factor. J. Dermatology 19(11):642–643. Igarashi, A., et al. (1993) Regulation of connective tissue growth factor gene expression in human skin fibroblasts and during wound repair. Mol. Biol. Cell 4(6):637–645.

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
REF	Catalog Number
RUO	Research Use Only
	Use by
	Manufacturer
[–]	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
LOT	Batch code
IVD	In vitro diagnostic medical device
	Temperature limitation
EC REP	European Community authorized representative
[+]	With, contains
⚠	Consult accompanying documents

Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

.

For support visit www.lifetechnologies.com/support or email techsupport@lifetech.com

www.lifetechnologies.com

life technologies™