

## Overview

<b>Synonyms</b>	CCL1 Human; I-309 Human
<b>Description</b>	Human I-309/CCL1 was initially identified by subtractive hybridization as a transcript that was present in a <sup>3</sup> / T cell line but not in EBV-transformed B cells. Human CCL1 has been assumed to be a homologue of the mouse TCA3. While the two proteins share only approximately 42% amino acid sequence identity, both chemokines contain an extra pair of cysteine residues not found in most other chemokines. Human CCL1 and mouse TCA3 also share significant sequence homology in the 5' flanking region of their genes.
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 10-100 ng/ml.
<b>Sequence</b>	SKSMQVPFSR CCFSF AEQEI PLRAILCYRN TSSICSNEGL IFKLRGKEA CALDVTGVWVQ RHRKMLRHCP SKRK

## Properties

<b>Measured Molecular Weight</b>	Approximately 8.6 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at d -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Endotoxin Level</b>	Less than 1 EU/µg of rHuI-309/CCL1 as determined by LAL method.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Storage</b>	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. <b>Avoid repeated freeze/thaw cycles.</b>

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