

Recombinant Human I-309/CCL1

Information

Gene ID	6346
Accession #	P22362
Alternate Names	Small-inducible cytokine A1, T lymphocyte-secreted protein I-309
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 8.6 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.
AA Sequence	SKSMQVPFSR CCFSFAEQEI PLRAILCYRN TSSICSNEGL IFKLKRGKEA CALDTVGVVQ RHRKMLRHCP SKRK
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Reconstitution	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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Human I-309/CCL1	10 µg	100 µg	500 µg

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Quality Control

Purity	>97% by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuIL-309/CCL1 as determined by LAL method.

Description

Chemokine (C-C motif) ligand 1 (CCL1) belongs to a family inflammatory cytokines and also known as chemokines. It is a small glycoprotein secreted by activated T cells with a molecular weight of approximately 8.5 kDa. CCL1 attracts monocytes, NK cells, and immature B cells and dendritic cells by interacting with a cell surface chemokine receptor called CCR8. 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.

Reference

1. Miller MD, Krangel MS. 1992. Proc Natl Acad Sci U S A. 89:2950-4.
2. Roos RS, Loetscher M, Legler DF, et al. 1997. J Biol Chem. 272:17251-4.
3. Miller MD, Wilson SD, Dorf ME, et al. 1990. J Immunol. 145:2737-44.

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