Recombinant Human HCC-1 (CCL14)

Cat No:HR2R1486

For research use only

Overview

Quantity	100 ?g
Gene Symbol	CCL14
Gene ID	6358
Accession	Q16627
Alternative Name	C-C motif chemokine 14, Chemokine CC-1, HCC1, HCC-3, HCC-1(1-74), NCC-2, Small-inducible cytokine A14, CCL14, NCC2, SCYA14
Species	Human
Source	E. coli
Description	Hemofiltrate C-C chemokine (HCC)-1 is a recently described monocyte chemoattractant. CCL14 (also known as HCC-1) belongs to the CC chemokine family. Its mature propeptide is a low-affinity agonist of CCR1 that is converted to a high-affinity agonist of CCR1 and CCR5 on proteolytic processing by serine proteases. Determination of the amino acid sequence of HCC-1 revealed four cysteine residues in positions characteristic of the C-C chemokine family, and comparison with the sequences of other chemokines revealed that HCC-1 was most homologous to MIP-1a. However, several functional properties of HCC-1 were atypical of chemokines. Unlike other chemokines, HCC-1 was expressed constitutively in a number of tissues and was present at high concentrations in normal human plasma. In addition, HCC-1 was reported not to be chemotactic for leukocytes.
Functions	Determined by its ability to chemoattract human monocytes using a concentration range of 2-40 ng/mL.
Formulation	Recombinant HCC-1 was lyophilized from a 0.2 ?m filtered 20 mM PB,100 mM NaCl solution pH 7.5.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	9
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.