

# Recombinant Human CCL14a/HCC-1 Protein (Sumo Tag)

RPE8102



## Product Information

<b>Product SKU:</b>	RPE8102	<b>Expression Host:</b>	E.coli	<b>Size:</b>	20µg
<b>Tag:</b>	N-Sumo	<b>Reactivity:</b>	Human	<b>Accession:</b>	Q16627

## Additional Information

<b>Calculated MW:</b>	20 kDa	<b>Observed MW:</b>	25 kDa
<b>Sequence:</b>	Gly28-Asn93		

## Protein Information

**Background:** CCL14a/HCC-1 has an important biological role in other mammals by evolving under positive selection that has been lost in Ochotonidae (subgenera Pika and Lagotona). CC chemokine ligand 14, CCL14a/HCC-1, is a human CC chemokine that is of recent interest because of its natural ability, upon proteolytic processing of the first eight NH<sub>2</sub>-terminal residues, to bind to and signal through the human immunodeficiency virus type-1 (HIV-1) co-receptor, CC chemokine receptor 5 (CCR5). Embryo implantation is a complex process involving blastocyst attachment to the endometrial epithelium and subsequent trophoblast invasion of the decidua. We have previously shown that the chemokines CX3CL1 and CCL14a/HCC-1 are abundant in endometrial vasculature, epithelial, and decidual cells at this time, and that their receptors, CX3CR1 and CCR1, are present on invading human trophoblasts. CX3CL1 and CCL14a/HCC-1 promote trophoblast migration.

**Synonyms:** CCL, HCC-1/HCC, SCYA, Chemokine CC-1/CC, C-C motif chemokine 14, CC-1, CC-3, Chemokine CC-1/CC-3, HCC-1, HCC-1(1-74), HCC-1/HCC-3, HCC-3, NCC-2, Small-inducible cytokine A14, NCC2, SCYA14, CCL14, CKb1, MCIF, SCYL2

**Endotoxin:** < 10 EU/mg of the protein as determined by the LAL method

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Bio-Activity:** Not validated for activity

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**Storage:**

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.