

Recombinant Rat CCL4 Protein (Ala24-Asn92), His-tagged

Cat. No. CCL4-934R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CCL4 Protein (NP_446310.1) (Ala24-Asn92) was produced by Yeast expression system. This protein was expressed with a polyhistidine tag at the C-terminus.
Species	Rat
Source	Yeast
ProteinLength	Ala24-Asn92
Description	CCL4 (C-C chemokine ligand 4), is a macrophage inflammatory protein with a chief effect in inflammation and immune-regulation, and was documented in cancer progression by promoting instability in the tumor environment. The inflammatory chemokine (C-C motif) ligand 4 (CCL4) plays an important role in the pathogenesis and progression of cancer. In particular, higher serum CCL4 levels in patients with oral squamous cell carcinoma (OSCC) are associated with a more advanced stage of disease. CCL4 may be a new molecular therapeutic target for inhibition of lymphangiogenesis and metastasis in OSCC. CCL3 and CCL4 loci may be marker SNPs for risk of HCV treatment outcome. CCL4 can enhance the recruitment of preosteoclasts to bone in the early stage, and the reduction of CCR5 promotes osteoclastogenesis when RANKL is prevalent.
Predicted N Terminal	Ala 24
Form	Lyophilized from sterile 30 % CAN, 0.1 % TFA. Normally 5 % - 8 % trehalose,

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	mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat Ccl4 consists of 79 amino acids and predicts a molecular mass of 9.2 kDa.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Ccl4 chemokine (C-C motif) ligand 4 [Rattus norvegicus]
Official Symbol	CCL4
Synonyms	CCL4; MIP-1-beta; Scya4; Mip1-b;
Gene ID	116637

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mRNA Refseq	NM_053858
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Protein Refseq	NP_446310
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UniProt ID	P50230
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