

CCL16 Protein, Human, Recombinant (His)

General Information

Synonyms:	SCYL4;HCC-4;ILINCK;LMC;SCYA16;NCC-4;CKb12;Mtn-1;LCC-1;LEC;chemokine (C-C motif) ligand 16;CCL16;NCC4
Protein Construction:	A DNA sequence encoding the human CCL16 (NP_004581.1) (Gln24-Gln120) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	O15467
Molecular Weight:	13.3 kDa (predicted); 15 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CCL16, a chemokine poorly characterized at the functional level. Human CCL16 is a member of the CC family, and its gene maps to human chromosome 17q. In the mouse, only a pseudogene has been identified to date. CCL16 is a functional ligand for CCR1, CCR2, CCR5, and CCR8. Recombinant CCL16 demonstrated chemotactic activity on human monocytes and lymphocytes. Based on the ability of human chemokines to exert activity on and bind to

murine receptors, the TSA mouse adenocarcinoma cell line was transfected with human CCL16 cDNA and, in comparison with other cytokines, was shown to be the faster inducer of systemic immune response due to massive, prompt infiltration of leukocytes.

Reference

Guiducci C, Di Carlo E, Parenza M, et al. Intralesional injection of adenovirus encoding CC chemokine ligand 16 inhibits mammary tumor growth and prevents metastatic-induced death after surgical removal of the treated primary tumor[J]. The Journal of Immunology, 2004, 172(7): 4026-4036.

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