For Research Use Only

Recombinant Mouse CCL19/MIP-3 beta protein (rFc Tag)

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Catalog Number: Eg3124

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse CCL19 protein Gly26-Ser108 (Accession# O70460) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24047

Accession:
O70460

Predicted Molecular Mass:
35.2 kDa

SDS-PAGE:
38-48 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Inflammation is considered a vital component of the tumor microenvironment, and it is proposed as a hallmark of cancer. Chemokines are a group of chemotactic cytokines that orchestrate the proper movement of immune cells through specific binding to corresponding receptors, thus contributing to the process of immune regulation and inflammatory response. Among CC chemokines, CCL19 is almost the most well-known chemokine for its homeostatic and physiological functions in the development of primary and secondary lymphoid organs. CCL19 is highly expressed in lymphoid organs, including the thymus and lymph nodes. Therefore, it exerts physiological and homeostatic functions in developing the immune system. In addition, CCL19 has been confirmed to be moderately expressed in non-lymphoid organs, including the colon and trachea. Moreover, the small intestine, lung, spleen, kidney, and stomach express CCL19 at low levels.

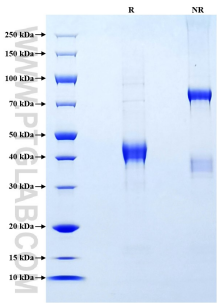
References

1.Colotta F. et al. (2009) Carcinogenesis 30, 1073-81.
2.Bhat AA. et al. (2021) Mol Cancer. 20, 2.
3.Link A. et al. (2007) Nat Immunol. 8, 1255-65.
4.Baggiolini M. et al. (2001) J Intern Med .250, 91-104.
5.Kawashima D. et al. (2005) J Clin Pathol .58, 1057-63.

Synonyms

CCL19/MIP-3 beta, C-C motif chemokine 19, Ccl19, EBI1 ligand chemokine, ELC

Selected Validation Data



Purity of Recombinant Mouse CCL19 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.