

Cytokines

Human Recombinant CCL19 (MIP-3 beta)



Scientists Helping Scientists™ | WWW.STEMCELL.COM

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

Catalog #100-0935
100-0936

100 µg
1000 µg

Product Description

Chemokine ligand 19 (CCL19), also known as macrophage inflammatory protein-3 beta (MIP-3β), is a member of the CC chemokine family, which plays key roles in inflammatory responses, T cell activation, homeostasis, and development (Yan et al.). CCL19 is expressed in lymph nodes, thymus, and activated bone marrow stromal cells; it binds to C-C motif chemokine receptor 7 (CCR7) to induce migration of macrophages, T cells, and B cells (Gibejova et al.). Clinically, the expression of CCL19 is correlated to autoimmune diseases such as rheumatoid arthritis and cancer (Pickens et al.; Zhang et al.).

Product Information

Alternative Names: beta-chemokine exodus-3, CC chemokine ligand 19, ELC, Exodus-3, MIP-3β, SCYA19
Accession Number: Q99731 (Gly22-Ser98)
Amino Acid Sequence: GTNDAEDCCL SVTQKPIPGY IVRNFHYLLI KDGCRVPAVV FTTLRGRQLC APPDQPWVER IIQRLQRTSA KMKRRSS
Predicted Molecular Mass: 8.8 kDa
Species: Human
Formulation: Lyophilized from a sterile-filtered aqueous solution containing 0.1% trifluoroacetic acid.
Source: *E. coli*

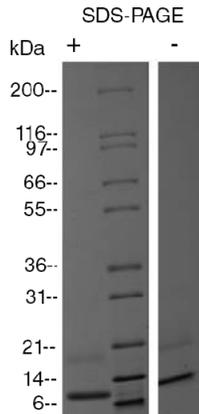
Specifications

Activity: Not available.
Purity: ≥ 95%
Endotoxin Level: Measured by kinetic Limulus amoebocyte lysate (LAL) analysis and is ≤ 1.0 EU/µg protein.

Preparation and Storage

Storage: Store at -20°C to -80°C.
Stability: Stable as supplied for 12 months from date of receipt.
Preparation: Centrifuge vial before opening. Reconstitute the product in sterile water to at least 0.1 mg/mL by pipetting the solution down the sides of the vial. Do not vortex. The effect of storage of stock solution on product performance should be tested for each application. As a general guide, do not store at 2 - 8°C for more than 1 month or at -80°C for more than 3 months. Avoid repeated freeze-thaw cycles.

Data



Human Recombinant CCL19 (MIP-3 beta) was resolved with SDS-PAGE under reducing (+) and non-reducing (-) conditions and visualized by Coomassie Blue staining. Human Recombinant CCL19 (MIP-3 beta) has a predicted molecular mass of 8.8 kDa.

Related Products

For a complete list of cytokines, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/cytokines or contact us at techsupport@stemcell.com.

References

- Gibejova A et al. (2003) Expression of macrophage inflammatory protein-3 β /CCL19 in pulmonary sarcoidosis. *Am J Respir Crit Care Med* 167(12): 1695–1703.
- Pickens SR et al. (2011) Characterization of CCL19 and CCL21 in rheumatoid arthritis. *Arthritis Rheum* 63(4): 914–22.
- Yan Y et al. (2019) CCL19 and CCR7 expression, signaling pathways, and adjuvant functions in viral infection and prevention. *Front Cell Dev Biol* 7: 212.
- Zhang Xiaoshu et al. (2017) Increased CCL19 expression is associated with progression in cervical cancer. *Oncotarget* 8(43): 73817–25.

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2021 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Canada Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.