Recombinant CCL19 protein (His tag)

Catalog Number	545771
Synonyms	Beta-chemokine exodus-3; CK beta-11; Epstein-Barr virus-induced molecule 1 ligand chemokine; EBI1 ligand chemokine; ELC; Macrophage inflammatory protein 3 beta; MIP-3-beta; Small-inducible cytokine A19
Species	Human
Expression System	E. coli
Accession	Q99731
Molecular Weight	Predictes a molecular mass of 10.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	22-98
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 22-98 aa (Q99731) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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.

Description

Description	Recombinant C-C motif chemokine 19 (CCL19) fragment (residues 22-98) is a highly pure, soluble protein designed for studying immune cell trafficking and inflammatory responses. This stable fragment retains key functional domains, making it ideal for chemotaxis assays, receptor binding studies, and structural biology applications. C-C motif chemokine 19 (CCL19) is a secreted human chemokine that plays critical roles in inflammatory responses, immunological functions, and normal lymphocyte recirculation. It facilitates T-cell and B-cell migration to secondary lymphoid organs and thymic T-cell trafficking through binding to chemokine receptor CCR7. The protein also interacts with atypical chemokine receptor ACKR4, mediating beta-arrestin recruitment. Recombinant CCL19 demonstrates potent chemotactic activity specifically for T-cells and B-cells, but not granulocytes or monocytes, highlighting its selective role in adaptive immunity. The secreted nature of this protein enables its function in extracellular signaling and immune cell guidance.