Recombinant CCL20 protein (His tag)

Catalog Number	544799
Synonyms	Beta-chemokine exodus-1; CC chemokine LARC; Liver and activation-regulated chemokine; Macrophage inflammatory protein 3 alpha; MIP-3-alpha; Small-inducible cytokine A20; 1-67; 1-64; 2-70
Species	Human
Expression System	E. coli
Accession	P78556
Molecular Weight	Predictes a molecular mass of 9.68 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	27-96
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 27-96 aa (P78556) 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 Human C-C Motif Chemokine 20 (CCL20) Fragment (27-96) - A high-quality, soluble protein fragment ideal for studying chemokine signaling, immune cell migration, and inflammatory responses. This stable fragment maintains key functional domains for reliable experimental results in structural and biochemical applications. C-C motif chemokine 20 (CCL20) functions as a critical ligand for CCR6 receptor, inducing strong chemotactic responses and calcium mobilization in immune cells. This chemokine plays essential roles in recruiting dendritic cells, effector/memory T-cells, and B-cells to skin and mucosal surfaces under both homeostatic and inflammatory conditions. CCL20 is particularly significant in autoimmune diseases and cancer pathology, where it facilitates the migration of both pro-inflammatory IL17-producing helper T-cells (Th17) and regulatory T-cells to inflammation sites. Additionally, it demonstrates antibacterial activity against E. coli and S. aureus and regulates sperm motility through CCR6-mediated calcium signaling. The full-length protein is naturally secreted and undergoes C-terminal processing, with processed forms maintaining chemotactic activity for leukocytes.