




Recombinant Bovine C-C motif chemokine 20 (CCL20)

Product Code	CSB-YP840478BO
Relevance	Acts as a ligand for C-C chemokine receptor CCR6. Signals through binding and activation of CCR6 and induces a strong chemotactic response and mobilization of intracellular calcium ions. The ligand-receptor pair CCL20-CCR6 is responsible for the chemotaxis of dendritic cells (DC), effector/memory T-cells and B-cells and plays an important role at skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathology, including cancer and autoimmune diseases. CCL20 acts as a chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but not monocytes. Involved in the recruitment of both the proinflammatory IL17 producing helper T-cells (Th17) and the regulatory T-cells (Treg) to sites of inflammation. Required for optimal migration of thymic natural regulatory T cells (nTregs) and DN1 early thymocyte progenitor cells. Positively regulates sperm motility and chemotaxis via its binding to CCR6 which triggers Ca ²⁺ mobilization in the sperm which is important for its motility. May be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells.
Abbreviation	Recombinant Bovine CCL20 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8SQB1
Alias	Macrophage inflammatory protein 3 alpha Short name: MIP-3-alpha Small-inducible cytokine A20
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	ASNFDCCCLRYTERILHPSILVGFTQQLANEACDINAVVFYTRKKLAVCADPKKKWVKQVVHMLSQRVKRM
Research Area	Others
Source	Yeast
Target Names	CCL20
Protein Names	Recommended name: C-C motif chemokine 20 Alternative name(s): Macrophage inflammatory protein 3 alpha Short name= MIP-3-alpha Small-inducible cytokine A20
Expression Region	27-96aa



Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	10.1kDa
Protein Length	Full Length of Mature Protein
Image	<div data-bbox="440 530 847 934">  </div> <div data-bbox="868 530 1342 627"> <p>(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.</p> </div>
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.