

Product Data Sheet

MIP-3 alpha/CCL20 Protein, Bovine (His-SUMO)

HY-P700550
rHuMIP-3α/CCL20; C-C motif chemokine 20; MIP3A; SCYA20
Bovine
E. coli
Q8SQB1 (A27-M96)
281666
24.1 kDa

DESCRIPTION

BackgroundMIP-3 alpha/CCL20 Protein serves as a ligand for C-C chemokine receptor CCR6, initiating a potent chemotactic response
and mobilizing intracellular calcium ions upon CCR6 binding and activation. The CCL20-CCR6 ligand-receptor pair plays a
crucial role in chemotaxis, attracting dendritic cells (DC), effector/memory T-cells, and B-cells. This partnership is
particularly significant in skin and mucosal surfaces under various conditions, including homeostasis, inflammation, cancer,
and autoimmune diseases. Acting as a chemotactic factor, CCL20 specifically attracts lymphocytes and, to a lesser extent,
neutrophils, excluding monocytes. Furthermore, it is involved in recruiting both pro-inflammatory IL17-producing helper T-
cells (Th17) and regulatory T-cells (Treg) to inflammation sites. CCL20 is essential for the optimal migration of thymic
natural regulatory T cells (nTregs) and DN1 early thymocyte progenitor cells. Additionally, it positively regulates sperm
motility and chemotaxis by binding to CCR6, triggering Ca2+ mobilization in sperm, a crucial factor for motility. CCL20 may
also contribute to the formation and function of mucosal lymphoid tissues by directing lymphocytes and dendritic cells
towards epithelial cells.

Caution: Product has not been fully validated for medical applications. For research use only.

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