

MIP-4/CCL18 Protein, Human (P. pastoris, His)

Cat. No.:	HY-P700545
Synonyms:	rHuMIP-4/CCL18; C-C motif chemokine 18; AMAC-1; SCYA18
Species:	Human
Source:	P. pastoris
Accession:	P55774 (A21-A89)
Gene ID:	6362
Molecular Weight:	9.9 kDa

PROPERTIES

AA Sequence	A Q V G T N K E L C C L V Y T S W Q I P Q K F I V D Y S E T S P Q C P K P G V I L L T K R G R Q I C A D P N K K W V Q K Y I S D L K L N A
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	MIP-4/CCL18 protein functions as a chemotactic factor with a specific affinity for lymphocytes, excluding monocytes or granulocytes. Its potential involvement in B-cell migration into B-cell follicles within lymph nodes suggests a role in orchestrating the cellular dynamics of immune responses. Furthermore, MIP-4/CCL18 plays a crucial role in attracting naive T-lymphocytes towards dendritic cells and activated macrophages in lymph nodes, exhibiting chemotactic activity for various T-cell subtypes, including naive T-cells, CD4+, and CD8+ T-cells. This broad chemotactic influence positions MIP-4/CCL18 as a potential player in both humoral and cell-mediated immunity responses, underscoring its multifaceted role in modulating immune cell trafficking and interactions within lymphoid tissues.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA