

Product: **Recombinant Human MIP-3 α (CCL20)**
Cat #: 300-164P
Powder

Description	Macrophage Inflammatory Protein-3 alpha (MIP-3 α), also called CCL20, is expressed in the liver, lungs, lymph nodes and peripheral blood lymphocytes. MIP-3 α is strongly up regulated by inflammatory signals, and down regulated by the anti-inflammatory cytokine IL-10. MIP-3 α signals through the G protein-coupled receptor, CCR6, and acts as a chemoattractant to lymphocytes and dendritic cells. Alternate names: CCL20, Exodus-1, LARC
MW	Non-glycosylated protein, containing 70 amino acids and a molecular weight of 8.0 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human MIP-3 α is lyophilized with no additives.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by its ability to act as a chemoattractant to human T cells and is typically in the range of 7 - 70 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.
AA Sequence	ASNFDCCCLGY TDRILHPKFI VGFTRQLANE GCDINAIIFH TKKLSVCAN PKQTWVKYIV RLLSKVKNM

Purity greater than 97% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!