

Animal-Free MIP-1 alpha/CCL3 Protein, Human (His)

Cat. No.:	HY-P7256AF
Synonyms:	MIP-1a: Macrophage Inflammatory Protein-1α; LD78α
Species:	Human
Source:	E. coli
Accession:	P10147 (A27-A92)
Gene ID:	6348
Molecular Weight:	Approximately 7.43 kDa

PROPERTIES

AA Sequence	A D T P T A C C F S Y T S R Q I P Q N F I A D Y F E T S S Q C S K P G V I F L T K R S R Q V C A D P S E E W V Q K Y V S D L E L S A
Biological Activity	The ED ₅₀ is <10 ng/mL as measure by its ability to chemoattract BaF3 cells transfected with human CCR5.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 50 mM Tris and 150 mM NaCl, pH 8.5.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 10 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-1 alpha/CCL3 protein, a monokine with inflammatory and chemokinetic properties, exhibits binding affinity to CCR1, CCR4, and CCR5 receptors. This protein, a major HIV-suppressive factor produced by CD8+ T-cells, demonstrates a dose-dependent inhibition of various strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). MIP-1 alpha/CCL3 self-associates and forms a heterodimer with MIP-1-beta(3-69).
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Caution: Product has not been fully validated for medical applications. For research use only.

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