

Animal-Free MIP-2/CXCL2 Protein, Mouse (His)

Cat. No.:	HY-P700171AF
Synonyms:	rMuMIP-2/CXCL2; C-X-C motif chemokine 2; SCYB2
Species:	Mouse
Source:	E. coli
Accession:	P10889 (A28-N100)
Gene ID:	20310
Molecular Weight:	Approximately 8.66 kDa

PROPERTIES

AA Sequence	A V V A S E L R C Q C L K T L P R V D F K N I Q S L S V T P P G P H C A Q T E V I A T L K G G Q K V C L D P E A P L V Q K I I Q K I L N K G K A N
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED ₅₀ for this effect is <0.5 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
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 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	<p>MIP-2/CXCL2 protein acts as a chemotactic factor specifically for human polymorphonuclear leukocytes, with the distinctive characteristic of not inducing chemokinesis or an oxidative burst in these cells. Its chemotactic function underscores its role in orchestrating the directed migration of polymorphonuclear leukocytes, contributing to their recruitment to specific sites in response to inflammatory signals. Notably, MIP-2/CXCL2 exists as a homotetramer, emphasizing its structural composition and potential implications for its biological activity in the regulation of immune responses and inflammatory processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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