

CXCL10 Protein, Rhesus macaque (His)

Cat. No.:	HY-P71883A
Synonyms:	CXCL10; SCYB10C-X-C motif chemokine 10; 10 kDa interferon gamma-induced protein; Gamma-IP10; IP-10; Small-inducible cytokine B10
Species:	Rhesus Macaque
Source:	E. coli
Accession:	Q8MIZ1 (I22-P98)
Gene ID:	574243
Molecular Weight:	Approximately 11 kDa

PROPERTIES

AA Sequence	<pre> I P L S R T V R C T C I S I S N Q P V N P R S L E K L E I I P P S Q F C P H V E I I A T M K K K G E K R C L N P E S K A I K N L L K A V S K E R S K R S P </pre>
Biological Activity	Measured in a cytotoxicity assay using HUVEC Human Umbilical Vein Endothelial Cells. The ED ₅₀ for this effect is 42.55 pg/mL, corresponding to a specific activity is 2.350×10 ⁷ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	CXCL10 protein serves as a chemotactic factor for both monocytes and T-lymphocytes, playing a crucial role in orchestrating their migration in response to inflammatory signals. Through its binding to CXCR3, CXCL10 establishes a molecular interaction that facilitates its chemoattraction functions. This selective chemotaxis for monocytes and T-lymphocytes positions CXCL10 as a key player in the immune response, contributing to the recruitment and activation of these immune cells within various physiological and pathological contexts.
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Caution: Product has not been fully validated for medical applications. For research use only.

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