

PF-4/CXCL4 Protein, Human (His-Avi)

Cat. No.:	HY-P700703
Synonyms:	PF-4; Oncostatin-A; CXCL4; SCYB4; Iroplact; MGC138298
Species:	Human
Source:	E. coli
Accession:	NP_002610.1 (E32-S101)
Gene ID:	5196
Molecular Weight:	10.68 kDa

PROPERTIES

Biological Activity	Immobilized Anti-CXCL4 Antibody at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human CXCL4, His Tag with the EC ₅₀ of 2.5µg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 4mM HCl, pH 3.0. Normally 8% trehalose is added as protectant before lyophilization.
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 4mM HCl, pH 3.0.
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	The PF-4/CXCL4 Protein, a member of the CXC chemokine family, is encoded by this gene. Released from the alpha granules of activated platelets in the form of a homotetramer, this chemokine exhibits high affinity for heparin and plays a crucial role in platelet aggregation. Beyond its involvement in platelet function, PF-4/CXCL4 is chemotactic for various cell types and serves as an inhibitor of hematopoiesis, angiogenesis, and T-cell function. Additionally, it demonstrates antimicrobial activity against Plasmodium falciparum. The gene displays biased expression, with elevated levels in the bone marrow (RPKM 14.3), spleen (RPKM 2.7), and one other tissue, underscoring its potential significance in various physiological contexts across multiple organs.
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Caution: Product has not been fully validated for medical applications. For research use only.

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