Recombinant Human IP-10 (CXCL10)

Cat No:HR2R1640

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CXCL10
Gene ID	3627
Accession	P02778
Alternative Name	CXCL10, C-X-C motif chemokine 10, 10 kDa interferon gamma-induced protein, Gamma-IP10, Small-inducible cytokine B10, IP10
Species	Human
Source	E. coli
Description	IP-10 shows homology to PF-4 (platelet factor-4) and belongs to the family of chemotactic cytokines known as chemokines. The receptor for IP-10 is CXCR3. IP-10 has been shown to bind to the virus-encoded viroceptor M3. The expression of IP-10 from a variety of cells, including monocytes, endothelial cells, keratinocytes, and fibroblasts, is induced by IFN-gamma and TNF-alpha. Human neutrophils produce IP-10 in response to IFN-gamma in combination with either TNF-alpha or bacterial lipopolysaccharides. IP-10 probably also plays a role in regulation of the growth of immature hematopoietic progenitor cells. It has been shown to suppress in vitro colony formation of highly enriched cells expressing the cell surface marker CD34 in the presence of SCF, GM-CSF, or SCF and EPO, but not in their absence with the exception of SCF.
Functions	Determined by its ability to chemoattract human T-Lymphocytes using a concentration of 10-50 ng/mL.
Formulation	Recombinant IP-10/CXCL10 was lyophilized from 0.2 ?m filtered PBS solution, pH 7.0.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	9
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.