

GFH127 Recombinant Human IP-10 / CXCL10

Description

Interferon γ -induced protein 10 (IP-10), also known as CXCL10, is a chemokine secreted by monocytes, endothelial cells and fibroblasts in response to interferon γ (IFN- γ). IP-10 functions as a chemoattractant for activated T cells, monocytes, dendritic, and Natural Killer (NK) cells that express the G protein-coupled receptor CXCR3. IP-10 is an important factor in autoimmune diseases such as Hashimoto's thyroiditis, Graves' disease, and Type 1 diabetes mellitus.

Length	77 aa
Molecular Weight	8.6 kDa
Source	E. coli
Accession Number	P02778
Purity	\geq 95% determined by reducing and non-reducing SDS-PAGE

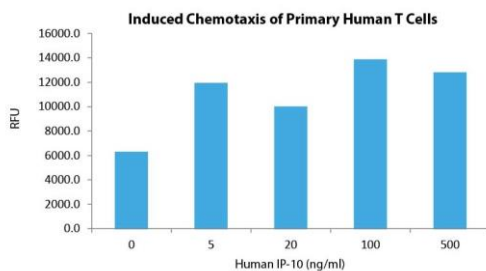
Specifications

Alternative Names	Monocyte Chemotactic Protein 1, CCL2, JE, MCAF
Biological Activity	Human IP-10 is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of human primary T cells.
Endotoxin Level	\leq 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	VPLSRTVTRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK ERSKRSP

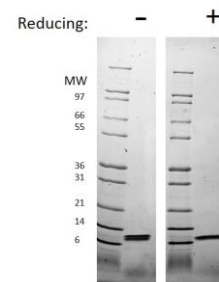
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced chemotaxis of primary human T cells assay for Human IP-10. Cells that migrated were counted using a luminescent substrate. Migration over basal levels was reported in response to Human IP-10 starting at 5 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human IP-10 has a predicted Mw of 8.6 kDa.