

Product: **Recombinant Human IP-10 (CXCL10)**
Cat #: 300-158P
Powder

Description	The chemokine IP-10 (or CXCL10) is a chemokine made by monocytes, endothelial cells and fibroblasts in response to treatment with IFN γ . IP-10 functions as a chemoattractant to cells (activated T cells and NK cells) expressing the G protein coupled receptor, CXCR3. IP-10 plays an important role in Th1 type inflammatory diseases and autoimmune diseases such as, Hashimoto's thyroiditis, Graves' disease and Type 1 diabetes mellitus. Alternate names: CXCL10, crg-2
MW	Non-glycosylated protein, containing 77 amino acids, with a molecular weight of 8.5 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	<i>E. coli</i>
Formulation	Recombinant human IP-10 is lyophilized with no additives.
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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by its ability to chemoattract human T lymphocytes at 5 – 40 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.
AA Sequence	VPLSRTVRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK EMSKRSP
Purity greater than 97% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.	
Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.	

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!