



Recombinant Human IP-10 / CXCL10

Catalog Number: 100-127
Accession Number: P02778

Specifications and Uses:

Alternate Names: CXCL10, crg-2

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. Recombinant human IP-10 is a non-glycosylated protein, containing 77 amino acids, with a molecular weight of 8.5 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human IP-10 is lyophilized with no additives.

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.

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.

Protein Content and Purity (typically $\geq 97\%$) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity is determined by its ability to chemoattract human T lymphocytes at 5 – 40 ng/mL.

AA Sequence:

VPLSRTVRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK EMSKRSP

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

Gentaaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium