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Certificate of Analysis

ImmunO™

Recombinant Mouse IP-10 (CXCL10)
Catalog #: 98273
Lot #: M5789

Form: Sterile filtered white lyophilized (freeze-dried) powder with no additives.

Description: Among CXC chemokines, CXCL10 has been identified to play an important role in several endocrinological autoimmune diseases such as Hashimoto's thyroiditis, Graves' disease and Type 1 diabetes mellitus. The chemokine IP-10 (interferon-inducible protein of 10 kDa, CXCL10) is a chemoattractant for CXCR3+ T cells, binds to the G protein-coupled receptor CXCR3, which is found mainly on activated T cells and NK cells and plays an important role in Th1-type inflammatory diseases. IP-10 also binds to glycosaminoglycans (GAGs), an interaction thought to be important for its sequestration on endothelial and other cells. Recombinant Mouse IP-10 produced in E.coli is a single, non-glycosylated polypeptide chain containing 77 amino acids and having a molecular mass of 8,701 Dalton.

Source: E.coli

Reconstitution: It is recommended to reconstitute the lyophilized product at 0.1 mg/ml with sterile water. This solution can then be further diluted into other aqueous solutions.

Purity: > 97% (by HPLC and reducing and non-reducing SDS-PAGE).

Protein: Protein content is determined by UV spectroscopy at 280 nm, analysis by RP-HPLC calibrated against a known standard and quantitation on SDS-PAGE against a known standard.

Biological

Activity: Murine IP-10 is fully biologically active when compared to standard. The Biological activity is calculated by its ability to chemoattract IL-2 activated T cells at 0.1-10.0 ng/ml.

AA

Sequence: IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCPVE IATMKKNDQ QRCLNPESKT IKNLMKAFSQ KRSKRAP

Storage: Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

Christina Marotta

Approved by: *Christina Marotta*
Quality Control Director

Control #