

## IP-10/CXCL10, Mouse

**Cat. No.:** Z02951-1

**Size:** 1.0 mg

**Synonyms:** gamma-Interferon Inducible Protein-10, CXCL10, crg-2

### Description:

TFAFA-2 also named FAM19A2 belongs to the TFAFA family of chemokinelike proteins. Like other members of the FAM19/TFAFA family, with the exception of TFAFA5, mature TFAFA1 to 4 contain 10 regularly spaced cysteine residues. Human TFAFA2 is 97% aa identical to mouse TFAFA2. TFAFA2 expression can be detected in the central nervous system (CNS), colon, heart, lung, spleen, kidney, and thymus, but its expression in the CNS is 50 to 1000fold higher than in other tissues. Within the CNS, TFAFA2 expression is highest in the occipital and frontal cortex (3 to 10fold more abundantly expressed than in other cortical regions) and medulla. The biological functions of TFAFA family members remain to be determined, but there are a few tentative hypotheses.

### Amino Acid Sequence:

00001 IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCRVE  
00041 IIATMKKNDE QRCLNPESKT IKNLMKAFSQ KRKRAP

**Source:** *E. coli*

**Species:** Mouse

**Biological Activity:** Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human peripheral blood lymphocytes is in a concentration range of 0.1-10.0 ng/ml in the presence of IL-2.

**Molecular Weight:** Approximately 8.7 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.

**Formulation:** Lyophilized from a 0.2  $\mu$ m filtered concentrated solution in 2  $\times$  PBS, pH 7.4.

**Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at  $\leq -20$  °C. Further dilutions should be made in appropriate buffered solutions.

**Purity:** > 97 % by SDS-PAGE and HPLC analyses.

**Endotoxin Level:** Less than 1 EU/ $\mu$ g of rMuIP-10/CXCL10 as determined by LAL method.

**Storage:** This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.