

Rev03
Update: Dec,14,2021

DATASHEET

IP-10/CXCL10, Mouse

Cat. No.: Z02951

Product Introduction

Species	Mouse
Protein Construction	CXCL10 (Ile22-Pro98) Accession # Q548V9
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	< 1 EU/ μ g of protein by LAL method
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.
Expression System	E. coli
Theoretical Molecular Weight	8.7 kDa
Formulation	Lyophilized from a 0.2 μ m filtered solution in 2 \times PBS, pH 7.4.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : TFAA-2 also named FAM19A2 belongs to the TFAA family of chemokinelike proteins. Like other members of the FAM19/TFAA family, with the exception of TFAA5, mature TFAA1 to 4 contain 10 regularly spaced cysteine residues. Human TFAA2 is 97% aa identical to mouse TFAA2. TFAA2 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, TFAA2 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 TFAA family members remain to be determined, but there are a few tentative hypotheses.

Synonyms : Small inducible cytokine B10; CXCL10; 10 kDa interferon-gamma-induced protein; Gamma-IP10; IP-10; chemokine (C-X-C motif) ligand 10; C7; IFI10; INP10; crg-2; mob-1; SCYB10; gIP-10

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.