

Rev03
Update: Dec,14,2021

DATASHEET

MDC/CCL22 (69aa), Human

Cat. No.: Z02844

Product Introduction

Species	Human
Protein Construction	CCL22 (Gly25-Gln93) Accession # 000626-1
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 10.0-100.0 ng/ml.
Expression System	E. coli
Theoretical Molecular Weight	8.1 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in 20 mM PB, pH 7.4, 500 mM NaCl.
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 : Macrophage-Derived/CCL22 Chemokine (MDC) , also known as stimulated T cell chemotactic protein (STCP1), is a CC chemokine initially isolated from clones of monocytederived macrophages. CCL22 is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. CCL22 shows chemotactic activity for natural killer cells, chronically activated T lymphocytes, monocytes and dendritic cells. CCL22 has mild chemotactic activity for primary activated T lymphocytes and no chemoattractant activity for neutrophils, eosinophils or resting T lymphocytes. CCL22 may also be involved in certain aspects of activated T lymphocyte physiology, such as trafficking activated T lymphocytes to inflammatory sites. CCL22 interacts with the cell surface chemokine receptor CCR4.

Synonyms : C-C motif chemokine 22; Small-inducible cytokine A22; Macrophage-derived chemokine; MDC(1-69); Stimulated T-cell chemotactic protein 1; CC chemokine STCP-1; CCL-22; MDC

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