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Recombinant Mouse Ccl22 Protein(TRX Tag)

Catalog Number: PDEM100114

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Species	Mouse		
Source	E.coli-derived Mouse MDC/CCL22 protein Gly25-Ser92, with an N-terminal Trx		
Calculated MW	27.4 kDa		
Observed MW	34 kDa		
Accession	O88430		
Bio-activity	Not validated for activity		
Properties			
Purity	> 90% as determined by reducing SDS-PAGE.		
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method		
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80		
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of		
	reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.		
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.		
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with 5% Trehalose and 5%		
	Mannitol.		
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of		
	0.5 mg/mL. Concentration is measured by UV-Vis.		

Data

kDa	М	R	
80			
60			
40	-		
30		-	
20			

SDS-PAGE analysis of Mouse MDC/CCL22 proteins, 2 µg/lane of Recombinant Mouse MDC/CCL22 proteins was resolved with an SDS-PAGE under reducing conditions, showing bands at 27.4 KD

Background

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CCL22, also named stimulated T cell chemotactic protein (STCP-1) and MDC, is a CC chemokine initially isolated from clones of monocyte-derived macrophages. Human CCL22 cDNA encodes a precursor protein of 93 amino acid residues with an a 24 amino acid residue predicted signal peptide that is cleaved to yield a 69 amino acid residue mature 8 kDa protein. At the amino acid sequence level, CCL22 shows less than 35% identity to other CC chemokine family members. Human CCL22 is expressed in dendritic cells, macrophages and activated monocytes. In addition, CCL22 expression is also detected in the tissues of thymus, lymph node and appendix. The gene for human CCL22 has been mapped to chromosome 16 rather than chromosome 17 where the genes for many human CC chemokines are clustered. Recombinant or chemically synthesized mature CCL22 has been shown to induce chemotaxis or Ca2+ mobilization in dendritic cells, I L-2 activated NK cells, and activated T lymphocytes. A CD8+ T lymphocyte-derived secreted soluble activity that suppresses infection by primary non-syncytium-inducing and syncytium-inducing HIV-1 isolates and the T cell line-adapted isolate HIV-11IIB, has been identified as CCL22. Based on amino-terminal sequence analysis, the major CD8+ T lymphocyte-derived CCL22 protein yielded an amino-terminal sequence of YGANM, which is two amino acid residues shorter than the predicted mature CCL22. The difference in potency between the two mature CCL22 isoforms has not been determined.