

Datasheet for 010-001-C21**MIP-3 beta Mouse Recombinant Protein****Overview**

Description:	MIP-3 β Mouse Recombinant Protein - 010-001-C21
Item No.:	010-001-C21
Size:	20 μ g
Applications:	SDS-PAGE
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	Macrophage Inflammatory Protein-3-beta (CCL 19, of the intercrine beta chemokine CC family) is an important secreted chemoattractant for dendritic cells, antigen-engaged B-cells, and effector-memory T-cells, signaling through the CCR7 receptor. It may play a role in promoting encounters between recirculating T-cells and dendritic cells and in the migration of activated B-cells into the T-zone of secondary lymphoid tissues. MIP-3 β specifically binds to chemokine receptor CCR7. MIP-3 β is strongly chemotactic for naive CD4 T-cells and for CD8 T-cells and weakly attractive for resting B-cells and memory CD4 T-cells. There is significant expression in dendritic cells in mesenteric and peripheral lymph nodes, and in spleen (T-cell zone or periarteriolar lymphatic sheath) and Peyer patches, but low expression in thymus. Recombinant mouse MIP-3-beta is a polypeptide chain consisting of 83 amino acids with a molecular weight of 9,200 Daltons.
Synonyms:	C-C motif chemokine 19, Small-inducible cytokine A19, Epstein-Barr virus-induced molecule 1 ligand chemokine, EBI1 ligand chemokine, ELC
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	Ccl19
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Purity/Specificity:	Purity was determined to be greater than 98% as determined by reducing and non-reducing SDS-PAGE and analytical HPLC.
Relevant Links:	• UniProtKB - O70460 • NCBI

Application Details

Tested Applications:	SDS-PAGE
Application Note:	MIP-3 β protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-MIP-3 β in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Biological Activity: Recombinant mouse MIP-3-beta induces chemotaxis of human T- cells in a concentration range of 8 – 80 ng/ml. Endotoxin Level: Measured by LAL is <0.01ng/ μ g or <0.1EU/ μ g.

Formulation

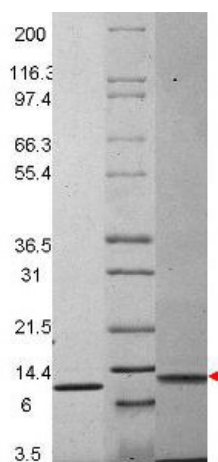
Physical State:	Lyophilized
Concentration:	0.1 μ g/mL by UV absorbance at 280 nm
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	20 μ l (20-200 μ l)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL) . For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiration: Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE shows band corresponding to MIP-3 β (1 μ g) in lane 1 (unreduced) and lane 3 (reduced, arrowhead). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.