

Datasheet for 009-001-B85**MIP-1 beta Human Recombinant Protein****Overview**

Description:	MIP-1 β Human Recombinant Protein - 009-001-B85
Item No.:	009-001-B85
Size:	10 μ g
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	MIP-1 β is a secreted monokine with inflammatory and chemokinetic properties and can exist as a homodimer. It belongs to the intercrine beta (chemokine CC) family. Human Macrophage Inflammatory Protein-1-beta (also known as CCL4 or C-C motif chemokine 4) produced in E.coli is a single, non-glycosylated, polypeptide chain containing 69 amino acids and having a molecular mass of 7620 Daltons.
Synonyms:	Small-inducible cytokine A4, SCYA4, MIP-1- β , MIP1B T-cell activation protein 2, ACT-2, PAT 744, Protein H400, SIS-gamma, Lymphocyte activation gene 1 protein, LAG-1, LAG1,HC21, G-26 T-lymphocyte-secreted protein, & CCL4 or C-C motif chemokine 4
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CCL4
Purity/Specificity:	Purity was determined to be greater than 98% as determined by analysis by RP-HPLC and by reducing and non- reducing SDS-PAGE.
Relevant Links:	• UniProtKB - P13236 • NCBI

Application Details

Tested Applications:	SDS-PAGE
Application Note:	MIP-1 β protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-MIP-1 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: Human MIP-1 is fully biologically active when compared to standard. The activity is calculated by the ability to chemoattract human blood monocytes using a concentration of 2.5 - 15 ng/mL. No acceptance criteria limits established. Endotoxin Level: Measured by LAL is <1EU/ μ g.

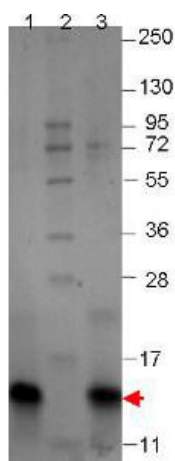
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10 μ l (10-100 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-1 β (2 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.