

**Datasheet for 012-001-V76-0010****rRat CCL7 Protein****Overview**

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| <b>Description:</b>  | Rat Monocyte Chemotactic Protein-3 (CCL7) Recombinant Protein - 012-001-V76-0010 |
| <b>Item No.:</b>     | 012-001-V76-0010                                                                 |
| <b>Size:</b>         | 10 µg                                                                            |
| <b>Origin:</b>       | Rat                                                                              |
| <b>Expressed in:</b> | E. coli                                                                          |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Background:</b>        | Monocyte Chemotactic Protein 3 (MCP-3), also called CCL7, is chemokine produced by macrophages and some tumor cell lines. MCP-3 signals through three different G protein-coupled receptors, CCR1, CCR2, and CCR3. CCL7 chemoattracts monocytes and can regulate macrophage function. Recombinant rat MCP-3 is a non-glycosylated protein, containing 75 amino acids, with a molecular weight of 8.6 kDa. |
| <b>Synonyms:</b>          | MARC, Monocyte chemoattractant protein 3, Monocyte chemotactic protein 3 (MCP-3), Small-inducible cytokine A7                                                                                                                                                                                                                                                                                             |
| <b>Species of Origin:</b> | Rat                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Expressed in:</b>      | E. coli                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Low Endotoxin:</b>     | Yes                                                                                                                                                                                                                                                                                                                                                                                                       |

**Target Details**

|                            |                                                                                                                                                                                            |
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| <b>Gene Name:</b>          | Ccl7                                                                                                                                                                                       |
| <b>Purity/Specificity:</b> | Monocyte Chemotactic protein-3 (CCL7) purity was determined to be greater than 97% as determined by HPLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-PAGE. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q9QXY8</a></li></ul>                                                                                                       |

## Application Details

|                          |                                                                                                                                                                                                                              |
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| <b>Application Note:</b> | Monocyte Chemotactic Protein-3 Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-Monocyte Chemotactic Protein-3 in immunological assays.                                                        |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                              |
| <b>Other:</b>            | Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the ability to chemoattract human monocytes or THP-1 cells at 1-100 ng/mL. |

## Formulation

|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                  |
| <b>Buffer:</b>                | 0.1% Trifluoroacetic acid                    |
| <b>Preservative:</b>          | None                                         |
| <b>Stabilizer:</b>            | None                                         |
| <b>Reconstitution Volume:</b> | 10 $\mu$ l (10-100 $\mu$ l)                  |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent) |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is six (6) months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Disclaimer

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