

## Recombinant Mouse Car9 protein(Met1-Asp390), His-tagged

**Cat. No.** Car9-914M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse CAR9 (NP_647466.2) (Met 1-Asp 390) was expressed in HEK293, with a C-terminal polyhistidine tag.                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-390 a.a.                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                        |
| <b>Bio-activity</b>     | Measured by its esterase activity. The specific activity is >100 pmoles/min/μg.                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | The secreted recombinant mouse CAR9 comprises 370 amino acids and has a calculated molecular mass of 40.3 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 45-50 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per μg of the protein as determined by the LAL method                                                                                                                                                                                                        |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein                                                                                            |

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be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

|                        |                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Car9 carbonic anhydrase 9 [ Mus musculus ]                                                                                          |
| <b>Official Symbol</b> | Car9                                                                                                                                |
| <b>Synonyms</b>        | CAR9; carbonic anhydrase 9; CA-IX; carbonic anhydrase IX; carbonate dehydratase IX; membrane antigen MN homolog; Ca9; CAIX; MN/CA9; |
| <b>Gene ID</b>         | 230099                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_139305                                                                                                                           |
| <b>Protein Refseq</b>  | NP_647466                                                                                                                           |

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