

## Recombinant Mouse Car14 Protein (Ala16-Met290), N-His tagged

**Cat. No.** Car14-6725M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Ca14 (Ala16-Met290) fused with the N-terminal His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Ala16-Met290                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Enables carbonate dehydratase activity. Predicted to be involved in one-carbon metabolic process. Predicted to act upstream of or within carbon dioxide transport and regulation of pH. Predicted to be located in membrane. Predicted to be integral component of membrane. Predicted to be active in plasma membrane. Is expressed in several structures, including central nervous system; cranium; epiblast; eye; and urinary system. Orthologous to human CA14 (carbonic anhydrase 14). |
| <b>Form</b>             | Lyophilized powder/frozen liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 30.25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>            | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | Supplied as solution form in PBS or lyophilized from PBS.                                                                                                                               |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.                                                                                                                                     |
| <b>Shipping</b>       | They are shipped out with dry ice/blue ice unless customers require otherwise.                                                                                                          |

## GENE INFORMATION

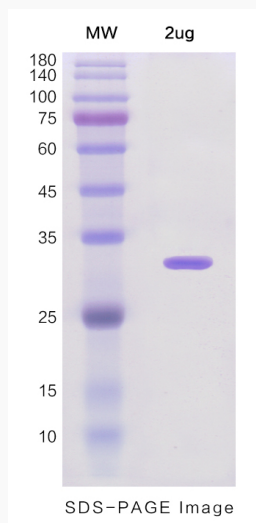
|                        |                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Car14 carbonic anhydrase 14 [ Mus musculus (house mouse) ]                                                                               |
| <b>Official Symbol</b> | Car14                                                                                                                                    |
| <b>Synonyms</b>        | Car14; carbonic anhydrase 14; Ca14; CA-XIV; carbonic anhydrase 14; CA XIV; carbonate dehydratase XIV; carbonic anhydrase XIV; EC 4.2.1.1 |
| <b>Gene ID</b>         | 23831                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_011797                                                                                                                                |
| <b>Protein Refseq</b>  | NP_035927                                                                                                                                |
| <b>UniProt ID</b>      | Q9WVT6                                                                                                                                   |

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## SDS-PAGE



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