

## Active Recombinant Mouse Car2 Protein, His-tagged

**Cat. No.** Car2-886M    **Lot. No.** (See product label)

### SPECIFICATION

|                             |   |
|-----------------------------|---|
| <b>Product Overview</b>     | Recombinant mouse CA2 (AAH55291.1) (Met 1-Lys 260) was expressed, with a C-terminal polyhistidine tag.  |
| <b>Species</b>              | Mouse   |
| <b>Source</b>               | E.coli  |
| <b>ProteinLength</b>        | 1-260 a.a.  |
| <b>Predicted N Terminal</b> | Ser 2   |
| <b>Form</b>                 | Lyophilized from sterile 50mM Tris, 150mM NaCl, pH 7.51, 5%~8% trehalose and mannitol.  |
| <b>Bio-activity</b>         | Measured by its esterase activity. The specific activity is >100 pmoles/min/μg.   |
| <b>Molecular Mass</b>       | The recombinant mouse CA2 comprises 270 amino acids and has a calculated molecular mass of 30.4 kDa. The recombinant protein migrates as an approximately 30-33 kDa band 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>               | >96 % as determined by SDS-PAGE.  |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70°C.   |

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|----------------------------|--|
| <b>Storage</b>             | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b>      | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
| <b>GENE INFORMATION</b>    |  |
| <b>Gene Name</b>           | Car2 carbonic anhydrase 2 [ Mus musculus ]   |
| <b>Official Symbol</b>     | Car2   |
| <b>Synonyms</b>            | Ca2; CAII; Car-2; Ltw-5; Lvtw-5; AI131712; CA II; CA-II; carbonate dehydratase II; carbonic anhydrase II   |
| <b>Gene ID</b>             | 12349  |
| <b>mRNA Refseq</b>         | NM_009801  |
| <b>Protein Refseq</b>      | NP_033931  |
| <b>MIM</b>                 |  |
| <b>UniProt ID</b>          | P00920   |
| <b>Chromosome Location</b> | 3 A1; 3 3.23 cM  |
| <b>Pathway</b>             | Collecting duct acid secretion, organism-specific biosystem; Nitrogen metabolism, organism-specific biosystem; Pancreatic secretion, conserved biosystem                       |
| <b>Function</b>            | arylesterase activity; carbonate dehydratase activity; metal ion binding   |

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