

## Recombinant Rat Car2 protein, His-tagged

**Cat. No.** Car2-7677R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Car2 aa. (Met1~Lys260 (Accession # P27139)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                            |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Met1~Lys260                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 30.6kDa                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>   | The isoelectric point is 6.8.                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                            |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

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|                       |                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.     |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.05% sarcosyl and preservative. |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                      |

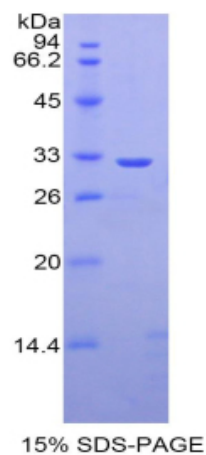
## GENE INFORMATION

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Car2 carbonic anhydrase 2 [ Rattus norvegicus (Norway rat) ]                      |
| <b>Official Symbol</b> | Car2                                                                              |
| <b>Synonyms</b>        | Ca2; CA-II; carbonate dehydratase II; carbonic anhydrase II; carbonic anhydrase 2 |
| <b>Gene ID</b>         | 54231                                                                             |
| <b>mRNA Refseq</b>     | NM_019291.1                                                                       |
| <b>Protein Refseq</b>  | NP_062164.1                                                                       |
| <b>UniProt ID</b>      | P27139                                                                            |

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**SDS-PAGE**

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