

# Mouse Carbonic Anhydrase IV / Car4 / CA4 (His Tag) recombinant protein



Catalog Number: 501710

## General Information

### Gene Name Synonym

Carbonate dehydratase IV; Carbonic anhydrase IV

### Protein Construction

A DNA sequence encoding the mouse Car4 (NP\_031633.1) without the C-terminal propeptide (Met 1-Ser 277) was expressed, with a C-terminal polyhistidine tag.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its esterase activity. The specific activity is >10 pmoles/min/μg.

### Purity

> 98 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Glu 18

## Molecular Mass

The secreted recombinant mouse Car4 consists of 271 amino acids and has a calculated molecular mass of 31 kDa as estimated in SDS-PAGE under reducing conditions.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

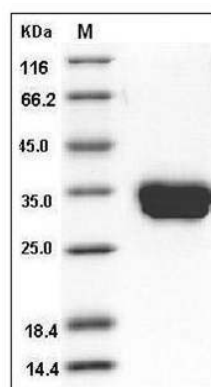
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Mouse Carbonic Anhydrase IV / Car4 Protein (His Tag) SDS-PAGE