

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



Catalog Number: 502494

## General Information

### Gene Name Synonym

Carbonate dehydratase IV; Carbonic anhydrase IV

### Protein Construction

A DNA sequence encoding the human CA4 (NP\_000708.1) (Met1-Lys283) without the pro peptide was expressed, fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its esterase activity. The specific activity is  $>2$  pmoles/min/ $\mu$ g.

### Purity

$> 96$  % as determined by SDS-PAGE

### Endotoxin

$< 1.0$  EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Ala 19

## Molecular Mass

The recombinant human CA4 consists of 276 amino acids after removal of the signal peptide and has a predicted molecular mass of 31.7 kDa. In SDS-PAGE under reducing conditions, rh CA4 migrates as an approximately 30 kDa band.

## 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

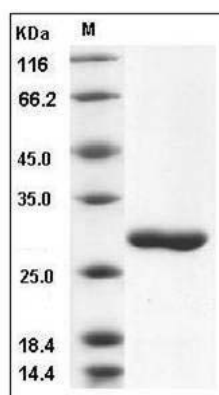
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . 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



Human Carbonic Anhydrase IV / CA4 Protein (His Tag) SDS-PAGE