

# Human Carbonic Anhydrase VIII/CA8 (His Tag) recombinant protein



Catalog Number: 500697

## General Information

### Gene Name Synonym

Carbonic anhydrase VIII

### Protein Construction

A DNA sequence encoding the human CA8 (NP\_004047.3) (Met 1-Gln 290) was expressed, with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

Measured by its esterase activity. The specific activity is >100 pmoles/min/ $\mu$ g.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

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

### Predicted N terminal

Met 1

## Molecular Mass

The recombinant human CA8 comprises 296 amino acids and has a predicted molecular mass of 33.8 kDa. It migrates as an approximately 37 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, 15% glycerol, pH 7.5  
1. 5 % trehalose and mannitol are added as protectants before lyophilization.  
2. Please contact us for any concerns or special requirements.

## Usage Guide

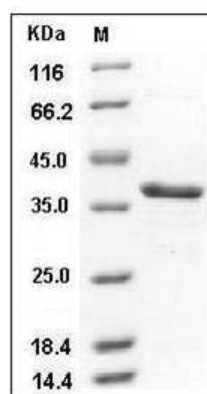
### Storage

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



Human Carbonic Anhydrase VIII / CA8 Protein  
(His Tag) SDS-PAGE