

# Human Carbonic Anhydrase VB (His Tag) recombinant protein



Catalog Number: 501268

## General Information

### Gene Name Synonym

Carbonate dehydratase VB; Carbonic anhydrase VB

### Protein Construction

A DNA sequence encoding the mature form of human CA5B (Q9Y2D0) (Cys 34-Pro 317) was fused with a polyhistidine tag at the C-terminus and an initial Met at the N-terminus.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

Measured by its esterase activity. The specific activity is >150 pmoles/min/ $\mu$ g.

### Purity

> 97 % 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

## Molecular Mass

The recombinant human CA5B comprises 295 amino acids and migrates as an approximately 34 kDa band as predicted in SDS-PAGE under reducing conditions.

## Formulation

Lyophilized from sterile 20mM Tris, 50mM NaCl, 0.05% Brij-35, pH 8.0

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

## Usage Guide

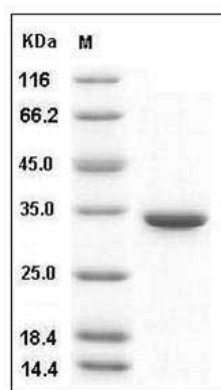
### Storage

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 VB / CA5B Protein (His Tag) SDS-PAGE