

# Human Carbonic Anhydrase VA (His Tag) recombinant protein



Catalog Number: 502053

## General Information

### Gene Name Synonym

Carbonate dehydratase VA; Carbonic anhydrase VA

### Protein Construction

A DNA sequence encoding the mature form of human CA5A (NP\_001730.1) (Ala 40-Ser 305) was fused with an Met at N-terminus and a polyhistide tag at the C-terminus.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

Measured by its esterase activity. The specific activity is >500 pmoles/min/ $\mu$ g.

### Purity

> 96 % 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 CA5A consisting of 277 amino acids and has a calculated molecular mass of 31.6 kDa. It migrates as an approximately 33 kDa band in SDS-PAGE under reducing conditions.

## Formulation

Lyophilized from sterile 50mM NaAc, 50mM NaCl, 0.05% Brij 35, pH 5.0

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

## Usage Guide

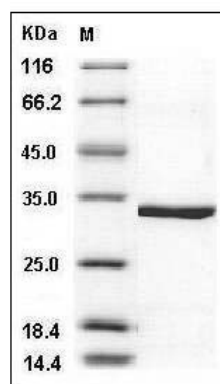
### Storage

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 CA5A / CA-VA Protein (His Tag) SDS-PAGE