

# Human Carbonic Anhydrase III (His Tag) recombinant protein



Catalog Number: 502398

## General Information

### Gene Name Synonym

Carbonate dehydratase III; Carbonic anhydrase III

### Protein Construction

A DNA sequence encoding the human CA3 (NP\_005172.1) (Met 1-Lys 260) 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 >5 pmoles/min/ $\mu$ g.

### Purity

> 95 % 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 CA3 consisting of 266 amino acids and has a calculated molecular mass of 30.4 kDa as estimated in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 50mM Tris, 500mM NaCl, 10% glycerol, 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

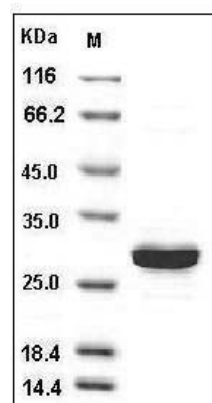
### Storage

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 III / CA3 Protein (His Tag) SDS-PAGE