

# Human Carbonic Anhydrase XIII/CA13 (His Tag) recombinant protein



Catalog Number: 501033

## General Information

### Gene Name Synonym

Carbonate dehydratase XIII; Carbonic anhydrase XIII

### Protein Construction

A DNA sequence encoding the human CA13 (NP\_940986.1) (Met 1-His 262) 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 >7 pmoles/min/μg.

### 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 1

### Molecular Mass

The recombinant human CA13 consisting of 268 amino acids and has a calculated molecular mass of 30.3 kDa. It migrates as an approximately 32 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 20mM Tris, 0.5M NaCl, 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

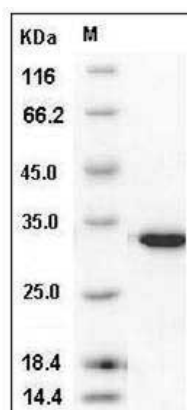
### Storage

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 XIII / CA13 Protein (His Tag) SDS-PAGE