

# Human Carbonic Anhydrase X (His Tag) recombinant protein



Catalog Number: 504192

## General Information

### Gene Name Synonym

Carbonic anhydrase-related protein X; Cerebral protein 15

### Protein Construction

A DNA sequence encoding the human CARPX (NP\_001076002.1) (Met 1-Asn 300) was expressed with a C-terminal polyhistidine tag.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its esterase activity. The specific activity is >10 pmoles/min/μg, as measured with 1 mM 4-Nitrophenyl acetate and 5 μg enzyme at 400 nm in 100 μL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

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

### Predicted N terminal

Gln 22

### Molecular Mass

The recombinant human CARPX consists of 291 amino acids and has a predicted molecular mass of 33 kDa. rhCARPX migrates as an approximately 37 kDa band in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

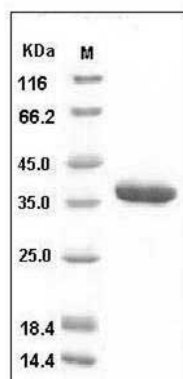
### Storage

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 X / CA10 Protein (His Tag) SDS-PAGE