# 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/ $\mu$ g, as measured with 1 mM 4-Nitrophenyl acetate and 5  $\mu$ g enzyme at 400 nm in 100  $\mu$ L of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

# Purity

> 97 % as determined by SDS-PAGE

#### Endotoxin

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

# Stability

Samples are stable for up to twelve months from date of receipt at -70  $^{\circ}\mathrm{C}$ 

# **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 7.41. 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**

KDa	М	
116	-	
66.2	-	
45.0	-	-
35.0	-	-
25.0	-	
18.4		
14.4	-	

Human Carbonic Anhydrase X / CA10 Protein (His Tag) SDS-PAGE