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

Purity

> 97 % as determined by SDS-PAGE

Endotoxin

 $< 1.0 \; \text{EU}$ 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

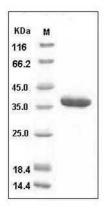
Storage

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