

Human Carbonic Anhydrase X recombinant protein



Catalog Number: 501373

General Information

Gene Name Synonym

Carbonic anhydrase-related protein X; Cerebral protein 15

Protein Construction

The mature form of human CARPX (NP_001076002.1) (Met 1-Asn 300) with five amino acids (DDDDK) at the C-terminus was expressed and purified.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

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

Purity

> 95 % 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 285 amino acids and has a predicted molecular mass of 27.2 kDa. Due to glycosylation, the rhCARPX migrates as an approximately 38 kDa band in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

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

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

Usage Guide

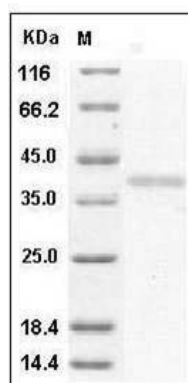
Storage

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
SDS-PAGE