

Human CellExp Carbonic Anhydrase 10/CA10, human recombinant protein
CA10, Carbonic Anhydrase X, CARPX, hucep-15
Catalog # PBV11106r

Specification

Human CellExp Carbonic Anhydrase 10/CA10, human recombinant protein - Product info

Primary Accession
Calculated MW

[O9NS85](#)

This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 32.6 kDa. The predicted N-terminus is Gln 22. DTT-reduced Protein migrates as 37 kDa due to glycosylation. KDa

Human CellExp Carbonic Anhydrase 10/CA10, human recombinant protein - Additional Info

Gene ID
Gene Symbol
Other Names
CA10, Carbonic Anhydrase X, CARPX, hucep-15

56934
CA10

Gene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results

Human
HEK293 cells
SDS-PAGE; ≥95%
N/A;
Yes
Measured by its esterase activity. The specific activity, as measured with 1 mM 4-Nitrophenyl acetate (4-NPA) as substrate and 5 µg rh CA10 / CARPX enzyme at 100 ng/ µl in 100 µL of 12.5 mM Tris, 75 mM NaCl, pH 7.5. The specific activity is >1 pmol/min/ µg.

Target/Specificity
Carbonic Anhydrase 10/CA10

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp Carbonic Anhydrase 10/CA10, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp Carbonic Anhydrase 10/CA10, human recombinant protein - Images

Human CellExp Carbonic Anhydrase 10/CA10, human recombinant protein - Background

Carbonic anhydrase-related protein 10 (CA10) is also known as Carbonic anhydrase-related protein X (CARP X or CARPX), Cerebral protein 15 (hucep-15), which belongs to the alpha-carbonic anhydrase family of zinc metalloenzymes, which catalyze the reversible hydration of carbon dioxide in various biological processes. CA10 / CARPX is an acatalytic member of the alpha-carbonic anhydrase subgroup, and it is thought to play a role in the central nervous system, especially in brain development.

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Okamoto N., et al. Biochim. Biophys. Acta 1518:311-316(2001).
Hewett-Emmett D., et al. Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Yoshimoto M., et al. Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
Kleiderlein J.J., et al. Hum. Genet. 103:666-673(1998).
Wiemann S., et al. Genome Res. 11:422-435(2001).