A Reliable Research Partner in Life Science and Medicine

Recombinant Human Carbonic Anhydrase 10/CA10 Protein (Human Cells, His Tag)

Catalog No. PKSH032157

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Carbonic Anhydrase-Related Protein 10; Carbonic Anhydrase-Related Protein X; CA-

RP X;CARP X;Cerebral Protein 15;CA10;CA-RPX;CARPX;HUCEP-15

Species Human

Expression Host HEK293 Cells Sequence Gln22-Asn300

Accession Q9NS85
Calculated Molecular Weight 32.8 kDa
Observed molecular weight 34 kDa
Tag C-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

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

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH

8.0.

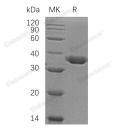
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: <u>www.elabscience.com</u> Email: <u>techsupport@elabscience.com</u>





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Background

Carbonic Anhydrase X (CA10) belongs to CA family of zinc metalloenzymes; which catalyze the reversible hydration of carbon dioxide in various biological processes such as respiration; renal tubular acidification and bone resorption. While CA10 is a secreted protein without Carbonic Anhydrase activity (i.e.; the reversible hydration of CO2) due to point mutations in the zinc binding site; it has esterase activity. The human and mouse CA10 are expressed in the brain; indicating that they may play a role in brain development.

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