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

Catalog No. PKSH031485

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 Met 1-Asn 300
Accession NP_001076002.1

Calculated Molecular Weight33 kDaObserved molecular weight37 kDaTagC-His

Bioactivity Measured by its esterase activity. The specific activity is > 10 pmoles/min/ μ g, as

measured with 1 mM 4-Nitrophenyl acetate and 5 μg enzyme at 400 nm in 100 μL

of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Properties

Purity > 97 % 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 $< -20^{\circ}$ C for 3 months.

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

Formulation Lyophilized from sterile PBS, pH 7.4

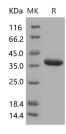
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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



> 97 % as determined by reducing SDS-PAGE.

For Research Use Only

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Background

Carbonic anhydrase X, also called carbonic anhydrase - related protein X (CARPX) and CA10, belongs to the 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. The secreted protein CARPX without CA activity (hydration of CO2) is identified as an acatalytic member of the alpha-carbonic anhydrase subgroup. CARP X expression is detected in the adult total brain and almost all parts of the central nervous system, but not in the fetal brain. Accordingly, CARP X is suggested to play a role in the development of central nervous system, especially the brain. The same CARP X protein are encoded by multiple transcript variants of this gene.

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