

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



Catalog Number:PKSH032157

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

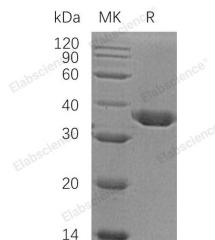
## Description

<b>Synonyms</b>	Carbonic Anhydrase-Related Protein 10;Carbonic Anhydrase-Related Protein X;CA-RP X;CARP X;Cerebral Protein 15;CA10;CA-RPX;CARPX;HUCEP-15
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Gln22-Asn300
<b>Accession</b>	Q9NS85
<b>Calculated Molecular Weight</b>	32.8 kDa
<b>Observed molecular weight</b>	34 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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 CO<sub>2</sub>) 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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