

# Recombinant Human Carbonic Anhydrase 10/CA10 Protein <sup>cdg</sup> (E.coli, His Tag)

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by Elabscience

Catalog Number:PKSH032158

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

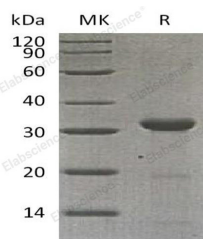
## Description

<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>	E.coli
<b>Sequence</b>	Ala21-Asn300
<b>Accession</b>	Q9NS85
<b>Calculated Molecular Weight</b>	33.0 kDa
<b>Observed molecular weight</b>	31 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 25mM Tris-HCl, 150mM NaCl, pH 7.5. 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-Related Protein 10 (CA10) protein belongs to the carbonic anhydrase family of zinc metalloenzymes. It is an acatalytic member of the alpha-carbonic anhydrase subgroup. CA10 expression is detected in the adult total brain and in almost all parts of the central nervous system; but it is not expressed in the fetal brain. CA10 catalyze the reversible hydration of carbon dioxide in various biological processes; which is fundamental to many processes such as respiration; renal tubular acidification and bone resorption. CA10 is thought to play a role in the central nervous system; especially in brain development.

## For Research Use Only

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Toll-free: 1-888-852-8623

Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017