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.

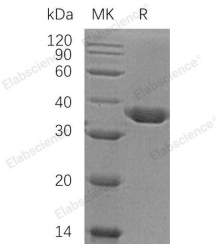
Description

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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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.

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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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