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Datasheet for ABIN1096209
CA10 Protein (AA 22-300) (His tag)

Overview

Quantity:	50 µg
Target:	CA10
Protein Characteristics:	AA 22-300
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CA10 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 10/CA10 (C-6His)
Sequence:	QQNSPKIHEG WWAYKEVVQG SFVPVPSFWG LVNSAWNLCS VGKRQSPVNI ETSHMIFDPF LTPLRINTGG RKVSGTMYNT GRHVSLRLDK EHLVNISGGP MTYSHRLEEI RLHFGSEDSQ GSEHLLNGQA FSGEVQLIHY NHELVTNVTE AAKSPNGLVW VSIFIKVSDS SNPFLNRMLN RDTITRITYK NDAYLLQGLN IEELYPETSS FITYDGSM TI PPCYETASWI IMNKPVYITR MQMHSLRLLS QNQPSQIFLS MSDNFRPVQP LNNRCIRTNV DHHHHHHH
Characteristics:	Recombinant Human Carbonic Anhydrase 10/CA10 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CA10
Alternative Name:	Carbonic Anhydrase 10 (CA10 Products)
Background:	<p>Recombinant Human Carbonic Anhydrase-Related Protein 10/CA10 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Q22-N300) of Human CA10 fused with a polyhistidine tag at the C-terminus.</p> <p>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.</p>
Molecular Weight:	32.82 kDa
UniProt:	Q9NS85

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>