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Datasheet for ABIN7317797
CA10 Protein

Overview

Quantity:	20 µg
Target:	CA10
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 10/CA10 Protein (Active)
Sequence:	Met 1-Asn 300
Characteristics:	The mature form of human CARPX (NP_001076002.1) (Met 1-Asn 300) with five amino acids (DDDDK) at the C-terminus was expressed and purified.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >100 pmoles/min/µg, as measured with 1 mM 4-Nitrophenyl acetate and 1 µg enzyme at 400 nm in 100 µL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Target Details

Target:	CA10
Alternative Name:	Carbonic Anhydrase 10/CA10 (CA10 Products)

Target Details

Background:	<p>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.</p> <p>Synonym: Carbonic Anhydrase-Related Protein 10, Carbonic Anhydrase-Related Protein X, CA-RP X, CARP X, Cerebral Protein 15, CA10,CA-RPX,CARPX,HUCEP-15</p>
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Molecular Weight:	27.2 kDa
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NCBI Accession:	NP_001076002
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	<p>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.</p>
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