

Active Recombinant Human CA10 Protein (22-328aa), C-His-tagged

Cat. No. CA10-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Carbonic Anhydrase X/CA10 (22-328aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	22-328 aa
Description	Carbonic anhydrase X, also known as CA10, belongs to the CA family of zinc metalloenzymes. It is catalyze the reversible hydration of carbon dioxide in various biological processes such as respiration, renal tubular acidification and bone resorption. Also an acatalytic member of the alpha-carbonic anhydrase subgroup, and it is thought to play a role in the central nervous system, especially in brain development.
Form	Liquid
Bio-activity	Specific activity is > 150 pmol/min/μg, and is defined as the amount of enzyme that hydrolyze 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 8.0 at 37 centigrade.
Molecular Mass	36.3 kDa (317 aa)

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AA Sequence	QQNSPKIHEGWWAYKEVVQGSFVPVPSFWGLVNSAWNLC SVGKRQSPVNIETSH MIFDPFLTPLRINTGGRKVSGTMYNTGRHVSLRLDKEHLVNISGGPMTYSHRLEEIRL HFGSEDSQGEHLLNGQAFSGEVQLIHYNHELYTNVTEAAKSPNGLVVVSIFIKVSD SSNPFLNRMLNRDTITRITYKNDAYLLQGLNIEELYPETSSFITDGSMTIPPCYETAS WIIMNKPVIYITRMQMHSRLRLSQNQPSQIFLSMSDNFRPVQPLNNRCIRTNINFSLQG KDCPNNRAQKLQYRVNEWLLK
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280 nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	CA10 carbonic anhydrase X [Homo sapiens (human)]
Official Symbol	CA10
Synonyms	CA10; carbonic anhydrase X; carbonic anhydrase-related protein 10; CA RPX; CARPX; HUCEP 15; CARP X; CA-RP X; cerebral protein 15; cerebral protein-15;

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carbonic anhydrase-related protein X; CA-RPX; HUCEP-15

Gene ID 56934

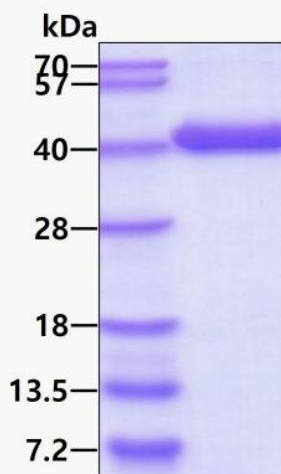
mRNA Refseq NM_020178

Protein Refseq NP_064563

MIM 604642

UniProt ID Q9NS85

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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