

Carbonic Anhydrase 10 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72865
Synonyms:	Carbonic anhydrase-related protein 10; CA-RP X; Cerebral protein 15; CA10
Species:	Mouse
Source:	HEK293
Accession:	P61215 (M1-N300)
Gene ID:	72605
Molecular Weight:	Approximately 38 kDa

PROPERTIES

AA Sequence	<pre> MEIVWEVLFLL LQANFIVCIS AQQNSPKIHE GWWAYKEVVQ GSFVVPVPSFW GLVNSAWNLC SVGKRQSPVN IETSHMIFDP FLTPLRINTG GRKVS GMTMYN TGRHVSLRLD KEHLVNISSG PMTYSHRLEE IRLHFGSEDS QGSEHLLNGQ AFSGEVQLIH YNHELTYTNVT EAAKSPNGLV VVSI FIKVSD SSNPFLNRML NRDTITRITY KNDAYLLQGL NIEELY PETS SFITYDGSMT IPPCYETASW IIMNKPVYIT RMQMHS LRL SQNQPSQIFL SMSDNFRPVQ PLNNRCIRTN </pre>
Biological Activity	Measured by its esterase activity. The specific activity is 130.5 pmol/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.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 25 mM Tris, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Carbonic Anhydrase 10 (CA10) is a member of the alpha-carbonic anhydrase family and is characterized by the absence of
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catalytic activity. While it shares structural features with other carbonic anhydrases, CA10 diverges functionally by not participating in the catalysis of carbon dioxide and water to form bicarbonate and protons. The distinct properties of CA10 within the alpha-carbonic anhydrase family highlight its unique role, likely involving functions other than the canonical enzymatic activity associated with this protein family.

Caution: Product has not been fully validated for medical applications. For research use only.

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