Carbonic Anhydrase 10 Protein, Human (HEK293, His)

Cat. No.:	HY-P7724
Synonyms:	rHuCarbonic Anhydrase 10, His; Carbonic Anhydrase-Related Protein 10; Carbonic Anhydrase-Related Protein X; CARP X; Cerebral Protein 15; CA10
Species:	Human
Source:	HEK293
Accession:	Q9NS85 (Q22-N300)
Gene ID:	56934
Molecular Weight:	Approximately 34.0 kDa

PROPERTIES

AA Sequence	Q Q N S P K I H E G W W A Y K E V V Q G S F V P V P S F W G L V N S A W N L C S V G K R Q S P V N I E T S H M I F D P F L T P L R I N T G G R K V S G T M Y N T G R H V S L R L D K E H L V N I S G G P M T Y S H R L E E I R L H F G S E D S Q G S E H L L N G Q A F S G E V Q L I H Y N H E L Y T N V T E A A K S P N G L V V V S I F I K V S D S S N P F L N R M L N R D T I T R I T Y K N D A Y L L Q G L N I E E L Y P E T S S F I T Y D G S M T I P P C Y E T A S W I I M N K P V Y I T R M Q M H S L R L L S Q N Q P S Q I F L S M S D N F R P V Q P L N N R C I R T N H H H H H H H
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	The catalytically inactive isoforms of carbonic anhydrase (CAs) are known as CA-related proteins (CARPs) VIII, X, and XI. They have highly conserved amino acid sequences. CARP X is more highly expressed in the pineal gland during night compared to

the day time, suggesting a function for wake/sleep patterns[1].

REFERENCES

[1]. Ashok Aspatwar, et al. An update on carbonic anhydrase-related proteins VIII, X and XI. J Enzyme Inhib Med Chem. 2013 Dec;28(6):1129-42.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA