

Carbonic Anhydrase 14 Protein, Mouse (275a.a, HEK293, His)

Cat. No.:	HY-P70810
Synonyms:	Carbonic Anhydrase 14; Carbonate Dehydratase XIV; Carbonic Anhydrase XIV; CA-XIV; CA14;
Species:	Mouse
Source:	HEK293
Accession:	Q9WVT6 (A16-M290)
Gene ID:	23831
Molecular Weight:	41-50 kDa

PROPERTIES

AA Sequence	<pre> A D G G H H W T Y E G P H G Q D H W P T S Y P E C G G D A Q S P I N I Q T D S V I F D P D L P A V Q P H G Y D Q L G T E P L D L H N N G H T V Q L S L P P T L H L G G L P R K Y T A A Q L H L H W G Q R G S L E G S E H Q I N S E A T A A E L H V V H Y D S Q S Y S S L S E A A Q K P Q G L A V L G I L I E V G E T E N P A Y D H I L S R L H E I R Y K D Q K T S V P P F S V R E L F P Q Q L E Q F F R Y N G S L T T P P C Y Q S V L W T V F N R R A Q I S M G Q L E K L Q E T L S S T E E D P S E P L V Q N Y R V P Q P L N Q R T I F A S F I Q A G P L Y T T G E M </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>The Carbonic Anhydrase 14 (CA14) protein is responsible for the reversible hydration of carbon dioxide, playing a key role in catalyzing the conversion of carbon dioxide to bicarbonate ions and protons. This enzymatic activity is fundamental in various physiological processes, contributing to the regulation of pH levels and the maintenance of acid-base balance. As a member of the carbonic anhydrase family, CA14 participates in the crucial biochemical reactions involved in carbon dioxide transport and buffering in tissues, emphasizing its significance in cellular homeostasis.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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