

Carbonic Anhydrase 4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7717
Synonyms:	rMuCarbonic Anhydrase 4, His; Carbonic Anhydrase 4; CAIV; CA4; Carbonate dehydratase IV
Species:	Mouse
Source:	HEK293
Accession:	Q64444 (E18-S277)
Gene ID:	12351
Molecular Weight:	Approximately 36.0 kDa

PROPERTIES

AA Sequence	<pre> E D S G W C Y E I Q T K D P R S S C L G P E K W P G A C K E N Q Q S P I N I V T A R T K V N P R L T P F I L V G Y D Q K Q Q W P I K N N Q H T V E M T L G G G A C I I G G D L P A R Y E A V Q L H L H W S N G N D N G S E H S I D G R H F A M E M H I V H K K L T S S K E D S K D K F A V L A F M I E V G D K V N K G F Q P L V E A L P S I S K P H S T S T V R E S S L Q D M L P P S T K M Y T Y F R Y N G S L T T P N C D E T V I W T V Y K Q P I K I H K N Q F L E F S K N L Y Y D E D Q K L N M K D N V R P L Q P L G K R Q V F K S H H H H H H </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris, 150 mM NaCl, pH8.0.
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	The human carbonic anhydrase IV (CA4) gene, located on chromosome 17q22, was the first identified membrane-bound isozyme in the 16-member carbonic anhydrase (CA) gene family and contains 1,170 base pairs. The CA4 enzyme is involved in the formation of gastric acid and participates in acid-base homeostasis. CA4 is expressed in normal human stomach tissues. CA4 may serve an important role in gastric cancer (GC) tumorigenesis by inhibiting cellular proliferation via
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regulating the expression of cell cycle-associated proteins. CA4 may serve as a diagnostic biomarker and a potential therapeutic target in GC^[1].

REFERENCES

[1]. Bujiang Wang, et al. Carbonic anhydrase IV inhibits cell proliferation in gastric cancer by regulating the cell cycle. *Oncol Lett.* 2020 Oct;20(4):4.

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

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