

Carbonic Anhydrase 9 Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78396
Synonyms:	CA9; CAIX; CA-IX; EC 4.2.1.1; G250; MN; P54/58N; PMW1; RCC
Species:	Human
Source:	HEK293
Accession:	Q16790 (Q38-D414)
Gene ID:	768
Molecular Weight:	50-60 kDa

PROPERTIES

Biological Activity	Immobilized Human CA9, His Tag at 0.9µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CA9 Antibody, hFc Tag with the EC ₅₀ of 18.8ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of 50 mM Tris, 150 mM NaCl, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
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.
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 9 (CA9) protein plays a crucial role as a catalyst in the conversion between carbon dioxide and water. It facilitates the formation of bicarbonate and hydrogen ions, the dissociated ions of carbonic acid. This enzymatic activity is essential for maintaining proper pH balance and regulating various physiological processes, including acid-base homeostasis, respiration, and ion transport. CA9 protein acts as a key player in the dynamic equilibrium of carbon dioxide and water, contributing to the efficient transport and regulation of these molecules in the body.

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