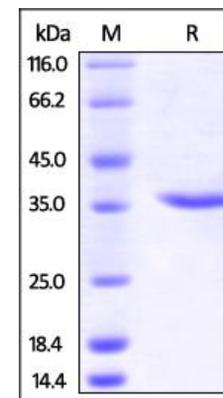


Human CellExp™ Carbonic Anhydrase IX / CA9, Human Recombinant

CATALOG NO:	P1336-10	10 µg
ALTERNATE NAMES:	CAIX, CA9, CA-IX, G250, MN, P54/58N, pMW1	
SOURCE:	HEK 293 cells (Gln 138 - Asp 414)	
PURITY:	> 95% by SDS – PAGE	
MOL. WEIGHT:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 62.7 kDa. The protein has a calculated MW of 30.9 kDa. The protein migrates as 36 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Generally Mannitol or Trehalose is added as a protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex.	
DESCRIPTION:	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes. CAs form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons (or vice versa), a reversible reaction that occurs rather slowly in the absence of a catalyst. One of the functions of the enzyme in animals is to interconvert carbon dioxide and bicarbonate to maintain acid-base balance in blood and other tissues, and to help transport carbon dioxide out of tissues. The active site of most carbonic anhydrases contains a zinc ion. There are at least five distinct CA families (α, β, γ, δ and ε). Carbonic anhydrase 9 (CA9 / CAIX) is also known as Membrane antigen MN (MN), Renal cell carcinoma-associated antigen G250, which belongs to the alpha-carbonic anhydrase family. CA9 / CAIX with an optimal activity at pH 6.49. Reversible hydration of carbon dioxide. CA IX participates in pH regulation. CA9 may be involved in the control of cell proliferation and transformation. CA-IX appears to be a novel specific biomarker for a cervical neoplasia.	



Human Carbonic Anhydrase IX (138-414), His Tag on SDS-PAGE under reducing (R) condition.

RELATED PRODUCT:

- Human CellExp™ Carbonic Anhydrase 9/CA9, human recombinant (**Cat. No. 7478**)
- Anti-Carbonic Anhydrase IX Antibody (CA9/781) (**Cat. No. A1463**)
- Carbonic anhydrase 9 (CA9)(Human) ELISA Kit (**Cat. No. E4353**)
- Human CellExp™ CD166/ ALCAM, human recombinant (**Cat. No. 7437-10, -50**)
- Human CellExp™ CD172A / SIRP, human recombinant (**Cat. No. 7506-10, -50**)
- Human CellExp™ CD33 / SIGLEC-3, human recombinant (**Cat. No. 7370-10, -50**)
- Human CellExp™ CD47, human recombinant (**Cat. No. 7385-10, -50**)
- Human CellExp™ CD55/DAF, human recombinant (**Cat. No. 7432-10, -50**)
- Human CellExp™ CD58 /LFA-3, human recombinant (**Cat. No. 7427-10, -50**)
- Human CellExp™ CD62E/E-Selectin, human recombinant (**Cat. No. 7434-20, -100**)
- Human CellExp™ CD71 / TFRC / TFR, human recombinant (**Cat. No. 7279-10, -50**)
- Human CellExp™ CD273, human recombinant (**Cat. No. 7369-10, -50**)
- Human CellExp™ CD36, human recombinant (**Cat. No. 7371-10, -50**)
- Human CellExp™ CD87, human recombinant (**Cat. No. 7372-20, -100**)

FOR RESEARCH USE ONLY! Not to be used on humans.