

Carbonic Anhydrase 9 Protein, Human, Recombinant (hFc) V2

General Information

Synonyms:	CAIX;MN;CA9;CA 9;Carbonic Anhydrase IX
Protein Construction:	Gln38-Asp414
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q16790
Molecular Weight:	66.91 kDa (Predicted); 70-80 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Measured by its esterase activity. The specific activity is > 50 pmol/min/ μ g (QC Test). Immobilized Human CA9, hFc Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Anti-CA9 Antibody, hFc Tag with the EC50 of 7.4ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CA9 is a member of the carbonic anhydrases' family, that is often expressed in cancer cells under hypoxic condition. CA9 expression potentially contributes to the regulation of cancer cell differentiation and mediates tumour-associated genes and signalling pathways, including apoptosis, hypoxia, G2M checkpoint, PI3K/AKR/mTOR signalling and TGF-beta signalling pathways.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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