



[Go to Product page](#)

Datasheet for ABIN7194570 CA9 Protein (Fc Tag)

Overview

Quantity:	50 µg
Target:	CA9
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CA9 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Carbonic Anhydrase 9/CA9 Protein (Fc Tag)(Active)
Sequence:	Met 1-Asp 414
Characteristics:	A DNA sequence encoding the human carbonic anhydrase IX (CA9) precursor (NP_001207.2) (Met 1-Asp 414) was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its esterase activity. The specific activity is >50 pmoles/min/µg, as measured with 1 mM 4-Nitrophenyl acetate and 1 µg enzyme at 400 nm in 100 µL of 12.5 mM Tris, 75 mM NaCl, pH 7.5.

Target Details

Target:	CA9
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Target Details

Alternative Name: Carbonic Anhydrase 9/CA9 ([CA9 Products](#))

Background: Background: Carbonic anhydrases IX (CA IX), also known as membrane antigen MN or CA9, is a member of the carbonic anhydrase (CA) family and may be involved in cell proliferation and cellular transformation. CAs are zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide ($H_2O + CO_2 = H^+ + HCO_3^-$) and thus participate in a variety of biological and physical processes. CA IX protein is expressed primarily in carcinoma cells lines, and the expression is cell density dependent and has been shown to be strongly induced by hypoxia, accordingly facilitates adaptation of tumor cells to hypoxic conditions. It is involved in tumorigenesis through many pathways, such as pH regulation and cell adhesion control. CA IX is used as a marker of tumor hypoxia and as a new therapeutic target for many human carcinomas and cancers. [Immune Checkpoint](#) [Immunotherapy](#) [Cancer](#)
[Immunotherapy](#) [Targeted Therapy](#)
Synonym: CAIX;Carbonic Anhydrase IX;MN

Molecular Weight: 67.7 kDa

NCBI Accession: [NP_001207](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.