

PRODUCT INFORMATION

CA9 **Target**

Synonyms MN; CAIX

Recombinant human CA9(38-137) Protein with C-Description

terminal human Fc tag

Delivery In Stock **Uniprot ID** Q16790 **Expression Host HEK293**

Tag C-Human Fc tag

Molecular

Storage & Shipping

CA9(Gln38-Asp137) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight**

37.0 kDa after removal of the signal peptide. The apparent molecular mass of CA9(38-137)-hFc is approximately 35-55 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & Reconstitution

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a

variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and

in their subcellular localization. CA IX is a

transmembrane protein and is one of only two tumor-associated carbonic anhydrase isoenzymes known. It is expressed in all clear-cell renal cell **Background** carcinoma, but is not detected in normal kidney or most other normal tissues. It may be involved in cell proliferation and transformation. This gene

was mapped to 17q21.2 by fluorescence in situ hybridization, however, radiation hybrid mapping localized it to 9p13-p12. [provided by RefSeq, Jun

2014]

Usage Research use only

Conjugate Unconjugated

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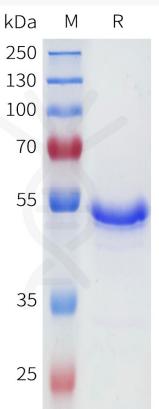


Figure 1. Human CA9(38-137) Protein, hFc Tag on SDS-PAGE under reducing condition.



